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THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER, BANK 852.

Established in

TELEGRAPHIC ADDRESS, "CHEMICUS LONDON."

ENGLAND - 1859. AUSTRALASIA - 1885.

Registered as a Newspaper.

No. 1,010. Vol. LIV. JUNE 3, 1899. Subscription 10s. per annum, including Diary, Post Free the World over. Single Copies, 4d. each; Winter and Summer Issues, 1s. each, Post Free.

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Prize Medals

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PARIS, 1855.
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PARIS, 1867.
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THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.
SATURDAY, JUNE 3, 1899.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

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1.—**£450.—LONDON, N. (Suburban).**—Light Retail and Dispensing Business; well-established concern; returns between £400 and £450 per annum, *with excellent profits*; the shop is well fitted and has good stock; large residence, held on lease: price about £325.

2.—**£600—EPPING FOREST (Near).**—Good market thoroughfare; Cash business; returns, under manager, over £600; *the profits are good*, as several good Proprietaries are included; the shop is well fitted and stocked; comfortable residence; vendor's own property; new lease will be granted; price £260.

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4.—**£1,200.—LONDON, N.W.**—Modern Pharmacy; well-established concern; returns, present rate, £1,200; *net profit* £400; attractive shop, well fitted and stocked; comfortable residence, held on long lease; price about £900.

5.—**£700.—MIDDLESEX.**—Unopposed Business; situate on the banks of the Upper Thames; returns last year £700, increasing; *net profit about* £200; well-fitted shop, and good stock; price about £650.

6.—**£250.—LONDON, S.W. (Suburb).**—Dispensing and Retail Business; practically unopposed; returns, present rate, over £250, increasing; house in perfect condition; low rental; price £150.

7.—**£1,800.—LONDON (Good-class Suburb).**—Old-established Business, well situate in good business thoroughfare; returns average £1,800; *net profit* £600; offer wanted; vendor retiring.

8.—**£700.—GLOUCESTERSHIRE.**—Old-established Business, well situate in the centre of town; returns between £600 and £700 yearly, but have been much larger, vendor's ill-health having prevented his energetic working; price £450.

9.—**£700.—YORKSHIRE.**—Agricultural and Retail Business; returns between £600 and £700 yearly; *profit* £350; shop is well fitted in mahogany and well stocked; low rental; price £50, and valuation of stock and fixtures.

10.—**£400.—CAMBRIDGE.**—Retail and Dispensing; all good-class business; returns £400, *profits above the average*; attractive shop, nicely fitted; comfortable residence; low rental; price £300.

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12.—**£500.—WALES.**—Retail and Agricultural Business; held by the vendor 25 years (now retiring); returns exceed £500, *about one-third profit*; double-fronted well-fitted shop; large house; rent £36; valuation only required, part could remain.

13.—**£800.—MIDLANDS.**—Capital opportunity for a good business man; Dispensing and Retail; returns last year £800, *with excellent profits*; price £350, or valuation.

14.—**£800.—WALES.**—Old-established Business; vendor retiring; returns £800 yearly; easily extended; busy town; worth the attention of a good business man; price about £600.

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6.—**KENT COAST.**—Good-class Light Retail and Dispensing Business; excellent position; good house; returns £750, net profit £250; well-fitted shop, heavily stocked; price £650.

7.—**WEST MIDLANDS.**—Unopposed Business: Retail, Prescribing, and Agricultural trade; returns nearly £900; low rent, with good house; shop well fitted and stocked; price £650.

8.—**EAST MIDLANDS.**—One hour's run from London; Retail, Dispensing, and Prescribing Business, making a net profit of £400 per annum; rent £38, long lease; price £650, stock and fixtures worth £600.

9.—**WORCESTERSHIRE.**—Light Retail and Prescribing Business; returns under manager £600; rent £40; principal ought to do £800; valuation only required (about £250); a bargain.

10.—**LONDON, W.**—Light Retail and Dispensing Business; returns £1,150; profits fully 50 per cent.; handsome pharmacy, well stocked; price £800, or offer.

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MIDLANDS.—Good-class Retail with Photographic; returns £7[illegible] fine shop in good position; very low rent; price £430. [42[illegible]

LONDON, W.—Good-class Cash Retail and Dispensing, in main [illegible] road; open to every investigation; returns (increasing) £1,350; yielding net profit of £350; long lease at low rent. [43[illegible]

POTTERIES.—Light Retail and Dispensing, with some Extracts; rapidly improving Business; returning £1,100, with a profit of £350 (pa[illegible] under manager). [427

ESSEX (near London).—Cash Retail for Sale; doing £700; dou[illegible] fronted shop, well stocked and fitted; will accept £270 for immediate [illegible] (less than the value of stock and fixtures). [42[illegible]

SURREY (busy town).—Family Retail and Dispensing; retu[illegible] £750, open to considerable increase; double-fronted shop, nicely fitted [illegible] well stocked; 21 years' lease, at moderate rent; price £500; part [illegible] remain. [412

GLOUCESTERSHIRE.—Good-class Retail and Dispensing; returning £862 with a profit of £225; unopposed; well fitted and stock[illegible]; 8-roomed house; price £650. [41[illegible]

GLOUCESTERSHIRE.—Good-class Light Retail and Dispensing Business, returning £300 under management; double-fronted co[illegible] position; at low rent; nicely fitted and well stocked; price £[illegible]0 only. [4[illegible]

SEASIDE TOWN.—For immediate sale, first-class Dispensing [illegible] Retail Business; returns £1,260; very profitable; handsome corner, [illegible] two good windows; price £1,000. [3[illegible]

FASHIONABLE SEASIDE TOWN.—Good-class Prescribing [illegible] Dispensing Business; returns £540; net profit £200; price £350; [illegible] business can easily be doubled. [3[illegible]

DERBYSHIRE.—Good-class Retail, Dispensing, and Prescribing [illegible] turning £1,854, yielding about £420 net profit; price £950. [4[illegible]

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CAMBRIDGESHIRE.—For Sale, a thoroughly genuine old [illegible]blished Chemist's Retail, with Paints, Tobacco, and Photogra[illegible]; in a rapidly increasing town; owner leaving neighbourhood; [illegible]vestigation to intending purchasers; transfer agencies need not [illegible]. W. Wilkinson, Chemist, Whittlesea.

CAMBRIDGESHIRE.—Ready-money Retail Prescribing and [illegible]pensing Business, of a very profitable nature; net profit last [illegible] £401; old-established, good house; low rent, on lease; stock and fix[illegible] worth £600; price £650; fortune to energetic man, not afraid of [illegible]k. 168,18, Office of this Paper.

GATESHEAD.—For Sale, an old-established Retail, Prescribing and Dispensing Business; good turnover and profits; double-fronted shop, well fitted out and stocked; will accept low price for quick sale or valuation if preferred. Apply, "Avis" (166,38), Office of this Paper.

GLOUCESTERSHIRE.—Fashionable town and health-resort, nice corner premises; position commands business; mahogany fitted; Light Retail, Dispensing, and Prescribing; owner retaining proprietaries; same hands 22 years, last 2 years as branch under manager; price £350, on lease. "Beldere" (157,34), Office of this Paper.

LANCASHIRE (Coast).—A good-class Light Retail and Dispensing Business in fashionable and rising seaside resort; returns £800; clear net profit £300 yearly; well fitted-up shop; heavily stocked; last price £650; an opportunity which seldom occurs. 168/17, Office of this Paper.

LINCOLNSHIRE.—For immediate Disposal, genuine Light Retail, Prescribing, Photographic, and Optical Business; wine licence; well stocked, large double-fronted shop; handsome mahogany fittings, recess-labelled bottles; good house and warehouse; situate in main street of seaport town; returns £400; exceptionally good profits; satisfactory reasons for selling; fullest particulars to genuine applicants; price for quick sale £340. "Statim" (164/3), Office of this Paper.

LONDON.—£1,100; stock at valuation; in London; good district; a Retail and Dispensing Business, returning £2,750 under management; rent £120; profit over 29 per cent. Apply, B., Lorimer & Co., Wholesale Druggists, Britannia Row, N.

LONDON.—£1,000; stock at valuation; in a busy London thoroughfare; Retail and Dispensing Business, returning £50 per week under management; rent £200, £50 let off; profit over 29 per cent. Apply, N., Lorimer & Co., Wholesale Druggists, Britannia Row, London, N.

LONDON (Suburb).—A Bargain.—A rapidly increasing Business in London Suburb; £230. "Ferrum," 30 Chester Road, Shrewsbury Road, Forest Gate, E.

LONDON, N.—Genuine old-established Business, in middle-class locality in North London; capable of increase; well fitted, and good stock; Post Office more than pays rent and rates; convenient house, in good condition; price about value of stock and fixtures; lease 10 years. Apply, T., 12 Richmond Road, Bayswater, W.

LONDON, S.W.—Retail, Prescribing, and Dispensing, with good sale of own Proprietaries; under management entirely the past nine years; rent £45; 12 years' lease to run; returns average the past three years £730; price £600. Apply, by letter, W. James, c/o Mr. Wallis, 106 Birchanger Road, South Norwood, S.E. No agents.

LONDON, E.—Chemist's Business; lofty shop and good window; modern Drug Store lamp; selected stock Drugs; rental shop, parlour, and large cellar, 7*s.* weekly; no reasonable offer refused; price low; owner leaving England, must sell; splendid bargain. 169/2, Office of this Paper.

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NORTH OF ENGLAND (near Newcastle).—For Sale, old-established Chemist's Business, with Wines and Spirits, also Branch, for valuation, about £1,100 and £300, together or separately, lump sum £1,350 to immediate purchaser; best position; good paying Specialities; owner leaving the trade. Further particulars from W. H., Talbot Hotel, Whitby, Yorks.

NORTH WALES.—For Disposal, with immediate possession, a well-established Family Chemist and Druggist Business, situated in a town of 10,000 people: terms easy; owner retiring. Apply for particulars to M.P.S., c/o Messrs. Evans, Sons & Co., 56 Hanover Street, Liverpool.

SUFFOLK.—Good-class Retail. Dispensing, and Prescribing Business; good situation: excellently fitted and well stocked; returns about £560; very profitable; satisfactory reason given for disposal; price £375. Apply, "Beta" (159/34), Office of this Paper.

WORCESTERSHIRE.—Light Retail and Prescribing Business, situated in best position of increasing neighbourhood; profitable trade; no other qualified Chemist; low rent; nicely-fitted shop; splendid opening for Dentistry; returns £800; valuation only required, about £325. Full particulars of "Statim" (167/14), Office of this Paper.

YORKSHIRE.—Old-established Retail and Prescribing Business, in large manufacturing town; returns over £500; a few years ago double; reduced through illness and neglect; might be worked up again by good and steady man; good specialities; price valuation of stock and fixtures. Apply, C. A. M. (162/11), Office of this Paper.

A SMALL Retail Dispensing and Prescribing Business in a healthy and rapidly improving S.W. Suburb; no opposition; convenient house with side entrance; small garden; rare opportunity for small capitalist, or could be worked successfully as a Branch; will be sold a bargain to a prompt purchaser; investigation invited. Apply, "Genuine" 168/26), Office of this Paper.

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EXCEPTIONAL opportunity.—Central Scotland.—Chemist's Business, in good country town, for sale: old-established Dispensing and Family Retail; handsome premises, well fitted and stocked; owner going into Wholesale business: £800 required (or part may remain). Apply, Mr. Clark, c/o Raimes, Clark & Co., Wholesale Druggists, Edinburgh.

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GENUINE small Light Retail, in rapidly-increasing healthy suburb of Midland county town; convenient house; small garden; rent and rates £26; good profits; no old stock; price £150 or offer. Apply

OLD-ESTABLISHED, with Freehold; what offers? Address, Field & Palmer, Southsea.

£120.—KENT, easy distance from town; Retail and Prescribing Business; returns £4 to £5 weekly, under management; no near opposition; increase certain under personal management; low rent; nice little house; only requires to be seen to be secured. 168/19, Office of this Paper.

£300 will purchase a well stocked and established Chemist's Business in main street of large Seaport town; splendid opening for young man starting; very low reutal to immediate purchaser; this is a sound investment, and full investigation is solicited. Apply, 165/7, Office of this Paper.

£2,350 returns; Lancashire; capital Business on Store lines, in important manufacturing town, with good sales of own Preparations; well-fitted shop in splendid position; good warehouse room, heavily stocked; price £900, value of stock and fixtures. Apply, J. W. R. (166/17), Office of this Paper.

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ADVERTISER is open to buy a Country Business; locality of no consequence providing there is scope for increase by the introduction of capital and energy; or a Partnership would be entertained in any old-style business, where a change to the more modern system of trading would be likely to prove beneficial. "Cinchona" (169/13), Office of this Paper.

WANTED, a good-class Business showing net profits not under £400; or Partnership entertained where partner's share would be £400. Full particulars (in confidence), to B. E. S. (166/26), Office of this Paper.

ROOM required for 1 day a week by a Dentist within 30 miles of London, in a town only where a Dentist is needed; liberal terms and commission on all business introduced. Write to "Dentist," c/o Willing's, 162 Piccadilly, W.

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Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

ASCOT.—Wanted, an Improver or Junior, 20 to 21, for first-class Dispensing business, outdoors; this is an exceptional opportunity for a young man desirous of obtaining a thorough experience in Dispensing; short hours. State salary and experience. Enclose photo. Sandwith & Clayton, Ascot, Berks.

BATH.—Wanted, a Senior Assistant, accustomed to select Dispensing; also a Junior; both qualified. Apply, giving full particulars and state salary required (indoors), to Whiston & Co., Chemists, Bath.

BIRMINGHAM.—Smart unqualified Assistant; photo. Particulars as to previous engagements, and salary required, to Hedges & Son, Chemists, Birmingham.

BIRMINGHAM, Gooch Street.—F. Gibson requires Junior with satisfactory recommendations, for Retail and Semi-Wholesale; salary to commence £30; two Assistants kept; one morning and night off each week; must be of steady habits as proprietor lives away; end of June; also under Porter, wages 16*s.* or 18*s.*; two kept.

BLOXWICH.—Wanted immediately, smart active and reliable Junior or Improver, used to a quick Retail and Dispensing business; must be abstainer and Churchman. Apply, stating age, height, salary, with photo, Hartill, Pharmacist, High Street, Bloxwich.

BRIGHTON.—Assistant, 23 or upwards, accustomed to first-class Dispensing and Retail business; Junior kept. State age, height, references, salary (indoors), and when disengaged, also enclose photo, if convenient, which will be returned, Kilby Pears & Son, Pharmaceutical Chemists, 16 Western Road, Brunswick Square, Brighton.

BRISTOL.—Wanted, a Junior Assistant (indoors) as soon as possible; state salary, with usual particulars, and photo if convenient. Apply, John Evans, Temple Gate, Bristol.

BROADSTAIRS.—A Junior Assistant or Improver (outdoors) required in a good-class Light Retail and Dispensing business; time allowed for recreation or study; applications not answered in 3 days are declined. Julian Horrell, Pharmaceutical Chemist, Broadstairs.

BUXTON,—Junior Assistant or good Improver; accustomed to good-class Retail and Dispensing. Apply, with photo, to A. Thresh, Buxton.

BUXTON (Derbyshire).—Smart Junior Assistant wanted, immediately, for four months; must be neat Dispenser, good Counterman. State age, height, and particulars, with photo, F. H. B., 13 Spring Gardens.

CAMBRIDGE.—A qualified Assistant is required for an old-established Pharmacy in Cambridge; he must be a quick Dispenser, and

SITUATIONS OPEN—*cont.*

RETAIL—continued.

CAPE COLONY.—Wanted, good Assistant, of gentlemanly address, well up in Dispensing, energetic, able to take charge of Branch, understands bookkeeping, and able to make out accounts; aged about 27; Minor qualification; Englishman; salary, first year, £140; second, £150; third, £160; and 2½ per cent. commission on cash sales; lodging found; second-class passage paid out; 3 years' agreement; required to start middle July; candidates must hold undeniable references. Address, "Cape," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CAPE COLONY.—Assistant required to take charge of Branch; must possess the Minor qualification, have had good experience in a pushing business, and furnish highest testimonials as to ability and sobriety; salary, including apartments, board, and washing, £110 per annum, and a commission on the business done; to an energetic man who intends to work, this is an excellent opening; agreement for one, two, or three years to be signed, and proportion of passage money refunded in the same proportion. Apply by letter, "Spriogbok," c/o H. E. Stevenson & Co., Manufacturing Chemists, Southwark Street, London, S.E.

CAPE TOWN.—Qualified Assistant wanted for first-class Chemist's business, not over 26 years of age; thoroughly steady, quick, and accurate Dispenser; second-class passage paid; 3 years' agreement to be signed; room supplied but not board; salary, first year, £12; second year, £13 10s.; third year, £15 per month; in addition to above, small commission on business done will be paid to good man. Apply to "Medicus," c/o John Murdoch & Co., 52 Leadenhall Street, London.

CHARD.—Wanted at once, reliable Assistant, accustomed to good-class country business; qualification not essential: liberal salary given to gentleman of suitable experience and trustworthy character. Apply, stating age, salary, and references, enclosing photo, which will be returned, to Smith, Chemist, Chard, Somerset.

CHATHAM.—Junior Assistant or Improver (outdoors), at once; state age, height, salary required, and enclose photo (to be returned). Apply to T. C. Lamb, Chemist, Chatham.

CHELMSFORD.—Wanted, immediately, qualified Junior, about 22 or 23, for General Country business, well up in Dispensing, and knowledge of Photography; staff—three Assistants, Clerk, &c.; hours easy. Reply, with portrait and full particulars, stating salary, outdoors, to James Tomlinson, Chelmsford, Essex.

CHELTENHAM.—Wanted, a qualified Assistant of good experience in Dispensing (outdoors). Please state age, height, and usual particulars, to Nathaniel Smith & Co., Cheltenham.

CLIFTON, BRISTOL.—For July 1st, a competent Assistant, not under 23, for the counter, in a first-class Dispensing business where 4 are kept; indoors. Address full particulars of experience, height, and salary required, to Giles, Schacht & Co.

COVENTRY.—Wanted, a good Junior or Improver, for a quick Cash business; outdoors; early day. Apply, with reference, and enclose other particulars, to Blunt's Drug Stores, Coventry.

DERBY.—Qualified Assistant wanted for good-class Cash Retail (outdoors); easy hours; no Sunday duty. Apply, stating age, height, salary required, references, and enclose photo, to Weston & Co. (Limited), St. Peter's Street, Derby.

EASTBOURNE.—An Assistant wanted. Apply, with full particulars, age, height, salary required, to R. Trickey, Chemist, 35 Terminus Road, Eastbourne.

EDINBURGH.—Dispenser; Inman's Drug Stores have a vacancy for an experienced qualified Assistant to take charge of their Dispensing Department at 46 Leith Street, Edinburgh; no Sunday duty. Apply, stating salary expected and usual particulars, to Mr. Inman, 48 Shandwick Place, Edinburgh.

EXETER.—Junior Assistant (outdoors) wanted, immediately, for a good-class Dispensing and Retail business. Apply, stating age, height, salary required, references, and enclose photo, to Milton & Son, Pharmaceutical Chemists, 265 High Street, Exeter.

EXMOUTH.—Wanted, a qualified Assistant; good Dispenser and Counterman; abstainer. Apply, stating age, experience, salary required (indoors), and enclosing photo (which shall be returned), to John R. C. Stephens, Chemist, Exmouth.

FALMOUTH.—At once, a smart Assistant, used to good-class trade, with knowledge of Photography preferred; reasonable hours. State full particulars and enclose photo, to Williams, Chemist, Falmouth.

GRANTHAM.—Outdoor Junior Assistant wanted at once; easy hours, time for study; in country town. Apply, with particulars, to Fisher & Co., Market Place, Grantham.

HINCKLEY.—Reliable Junior wanted, at once; splendid opportunity for experience in all classes of the trade. Apply, stating usual particulars, to W. Knight, Medical Hall, Hinckley.

HUDDERSFIELD.—Wanted, a qualified Assistant, experienced, for good Dispensing business; one desiring a permanency preferred. State age, height, if married, salary required (outdoors), and when disengaged, also send particulars of past experience, with reference and photo, if convenient, to King, Walshaw & Co (Limited), 4 Market Place, Huddersfield.

HULL.—Wanted, Branch Manager; qualified; married; to live in house attached to shop; ten roomed house, with every modern convenience, situated in pleasant suburb. Address, Charles D. Brighouse, Chemist, Beverley Road, Hull.

INDIA.—Required, an Assistant (Minor), about 24, single, with first-class London (West-end) experience; of gentlemanly appearance; 4 years' agreement; liberal salary; passage out, and furnished apartments. Apply by letter, S. M. O., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

KNIGHTON.—Wanted, a good Junior Assistant; indoors. Apply, sending fullest particulars, to J. Blower, Chemist, Knighton, Radnorshire.

LIVERPOOL.—Capable young man as Manager; qualified, abstainer preferred; quick medium-class trade. Apply, with photo (returnable), to "Salol," c/o Calvert Bros., Duke Street, Liverpool.

LONDON, S.W.—Wanted, at once, a smart Junior; one just out of apprenticeship in good house would do if competent; indoors; salary £30. Apply, with references, &c., 47 Fulham Road, S.W.

LONDON, S.W.—Immediately, an Assistant, about 23, for Light Retail, Dispensing, and Prescribing business. Apply, personally if possible, to C. Pretty, 235 North End Road, Walham Green, S.W.

LONDON, W.—Wanted, at once, an Assistant, about 26; qualified preferred. P. Boully & Co., 85 Bishops Road, Bayswater.

LONDON, N.W.—Junior, at once; indoors; abstainer; hours 8 till 10; at liberty Thursday afternoon and evening. Apply personally, or enclose carte with age, height, &c., to Mr. Taplin, 91 Hampstead Road, London, N.W. One only kept.

LONDON, S.W.—Wanted, a Junior Assistant; indoors; two kept; three afternoons and one evening a week for recreation. Apply, with usual particulars, enclosing photo (to be returned), to W. T. Frost, Mason's Pharmacy, Parson's Green, Fulham, S.W.

LONDON, S.W.—Qualified Dispenser wanted immediately; salary 2 guineas per week, progressive, outdoors; under 30 years of age; short hours. Address, Box 132, Sell's Advert'sing Offices, London.

LONDON, W.—Wanted, in about a fortnight's time, an indoor Assistant, accustomed to Store business. Apply to "Pharmacist," 53 Great Marylebone Street, Portland Place, W.

LONDON, W.—A qualified Assistant, accustomed to good Dispensing business; indoors. Apply, personally if possible, or by letter, stating age, and salary required, to A. & W. Hemingway, 20 Portman Street, Portman Square, W.

LONDON, S.E.—Assistant required, aged about 22, for good-class business; indoor; abstainer preferred, and some knowledge of Photographic trade desirable, but not essential; the shop is closed on Sunday, also on Wednesday evening: ample time for study and class. Apply, and if by letter mention particulars of experience, height, with salary and time required (please enclose photo), Phillips, 193 Knight's Hill, West Norwood, S.E.

LONDON, W.—Qualified Assistant wanted in a week's time; one who has had experience of all-round cash trade, and with knowledge of Photographic trade preferred. Send particulars of age, experience, salary required, &c., in first letter, to avoid unnecessary correspondence; letters not answered in two days respectfully declined. Burge, Fernhead Road, Paddington.

LONDON, W.—Wanted, a qualified Assistant, about 24 years of age, and accustomed to a good-class Dispensing business. Apply, Lynn, Chemist, Holland Park Avenue, W.

LONDON, N.W.—Qualified Assistant, about 23. Apply, personally or with photo, Elmer Pettinger, 30 Rosslyn Hill, Hampstead, N.W.

LONDON, S.W. (near Schools).—Assistant wanted, accustomed to good-class trade; two evenings off weekly for lectures. State salary, send photo, to "Hydrarg." (165,5), Office of this Paper.

LONDON, N.—Qualified Assistant wanted for Light Retail and Dispensing. Apply, Harcombe Cuff, 25 Friern Barnet Road, New Southgate, N.

LONDON, S.E.—Wanted, immediately, Junior Assistant for Cash business; aged 19 to 23; two assistants kept; salary £30 to £40 per annum (indoors), according to experience. Apply to Henry Squire, Cash Chemist, 189 High Street, Deptford, S.E.

LONDON, N.W.—Immediately, Assistant wanted for high-class Dispensing and Family business; aged about 22; must be of good appearance and address; outdoors. Apply, giving full particulars of experience, &c., to Mr Rowland, Station Pharmacy, Willesden Green, N.W. (16 minutes from Baker Street Station, Metropolitan Railway).

LONDON.—Assistant; unqualified; must be a good Window-dresser. 89 Bishopsgate Without, London.

LONDON, S.E.—Wanted, a Junior Assistant, unqualified (indoors) for a Prescribing, Dispensing, and Ready-money business; must be energetic and willing; time allowed daily for recreation or study. State salary required, when disengaged, and enclose photo (which will be returned), Mack's Drug Stores, Penge, London, S.E.

LONDON, N.—Qualified; for Branch; aged about 26; salary £65 with furnished apartments, board and attendance; must be energetic and reliable; a gentleman from a country house not objected to; one evening off, alternate Sundays on duty 6 P.M. to 10 P.M. Apply by letter giving particulars of experience, references, &c., "Chemist," 115A Stoke Newington Road, N.

LONDON, N.W.—Dispenser wanted, at once (outdoors), for best-class up-to-date Pharmacy; must be competent, energetic, and reliable. Apply, giving full particulars of experience, &c., stating salary required, to X., c/o Davy, Hill & Co., 64 Park Street, Southwark, S.E.

LONDON, S.E.—Improver or Junior wanted about June 23; suitable for one desiring permanency. Please give usual particulars to W. E. Callam, 194 Crystal Palace Road, East Dulwich, S.E.

LONDON, W.C.—Junior Assistant; indoors; 21 to 24. Apply, M. B., Messrs. Barron, Harveys & Co., Giltspur Street.

LONDON, S.W.—Wanted, a competent and experienced Dispenser; no Sunday work. Apply to the Secretary, Francis & Son (Limited), 450 Brixton Road, S.W.

LONDON, S.E.—A part-time Assistant; must have had experience in putting up high-class stock. T. Morgan Davis, 121 Lewisham High Road, S.E. (New Cross Station, S.E.R.).

LONDON, S.W.—Wanted, at once, at Haymarket Store, a qualified Dispenser (outdoors). Apply, by letter, giving particulars of experience, age, and salary expected, addressed to "Chemist," 28 Haymarket, S.W.

LONDON.—Wanted, good Junior; indoors; time for study or recreation arranged. Apply, C. Gadd & Son, 1 Harleyford Road, Vauxhall.

LONDON.—Qualified Manager wanted for Branch; must be competent, steady, and reliable. Address, with full particulars, 168/39, Office of this Paper.

MARCH.—Wanted, a Christian young man, well educated and obligiug, as Junior; one just out of his apprenticeship, and used to a Mixed country business; indoors. Particulars and photo to Davies, Pharmaceutical Chemist, March, Cambridgeshire.

MARGATE.—Assistant wanted, about 23; indoors. Apply, stating height, salary required, and enclosing photo, to A. H. Brooks, Chemist, Margate.

MARLOW.—Wanted, early in June, an Assistant for a good-class Family, Dispensing, and Photographic business; preference will be given to a gentleman who is qualified and well up in Photography. Apply, with full particulars (indoors), to C. Page Dye, The Central Pharmacy, Marlow.

MIDLANDS.—Branch Manager wanted for Mixed country business; fair interest in business, as well as house aud salary, to suitable man, who must have had varied experieuce. Please send full particulars by letter to "W.," c/o Mr. G. Ward, 70 St. Peter's Road, Leicester.

NATAL.—Qualified Assistant wanted for Durban on 3 years' engagement; 2nd class passage paid; salary £14 per month 1st year, £15 2nd year, £16 3rd year. Apply, with particulars of experience, to G. H., (168/38), Office of this Paper.

NEWPORT.—Wanted, a smart, active Junior, accustomed to the Photographic trade, for Dispensing and Mixed Retail; must be a good Counterman, quick and reliable. Apply, with photo (to be returned), stating age, height, salary (outdoor), and references, to A. Smith, 5 High Street, Newport, Mon.

NEWQUAY.—An Assistant, until end of October; must be capable, energetic, obliging, and well recommended; with knowledge of Photography preferred. Apply, giving full particulars, stating salary required (outdoors), and enclosing photo, to A. Boud, The Pharmacy, Newquay, Cornwall.

RAMSGATE.—Smart qualified Assistant, outdoors; moderu trading; reasonable hours. Apply, with full particulars aud photo, to Walker & Harris, Cash Chemists, Canterbury.

SCARBOROUGH.—Qualified Assistant, about 25, to manage branch; married; enclose photo. Coverdale, Chemist, Scarborough.

SCARBOROUGH.—Wanted, Junior Assistant (qualified), outdoor, for good-class Dispensing and General trade. State age, experience, and qualification, height and salary, and photo, Foster, 29E, St. Nicholas Street, Scarborough.

SCARBOROUGH.—Thoroughly reliable aud competent man, capable of being left in charge, for a Mixed Retail and small Wholesale; quick, and a good stock-keeper; must have excellent refereuces, and an abstainer preferred; required at once; permanency to a good man; qualification not imperative; references, salary, and full particulars. Longdin, Scarborough.

S.E.—Wanted, at once, young qualified Assistant; outdoors; short hours, weekly half-holiday and very little Sunday duty; a good salary to suitable man. Apply, B., 43 Parker's Row, Bermondsey, S.E.

ST. ANDREW'S, N.B.—Qualified Assistant wanted immediately. Apply, with references, &c., to Smith & Govau, Chemists, St. Andrews, Fifeshire.

SEASIDE (Light Retail and Dispensing).—Junior wanted, at once, till end of October; short hours; half-day off weekly. Apply, with particulars as to age, height, experience, salary required, and photo, to Chantry, Chemist, Totland Bay, I.W.

SEASIDE (Lancashire).—Junior, unqualified; smart, energetic, experienced; one accustomed to pushing Store trade preferred; permanency. Apply, stating age, height, and full particulars, salary required, and enclosing references and photo, 159/21, Office of this Paper.

SHREWSBURY.—Wanted, qualified Manager, exceptionally competent, and capable of working a large business; also Second qualified Assistant. State age, references, and salary required (outdoors), to Jesse Boot, Nottingham.

SOUTHAMPTON.—Junior or Improver required, at once, for Light Retail and Dispensing business. State age, height, experience, and salary required, to H. Jewell, 55 Above Bar, Southampton.

SOUTH AFRICA.—Wanted, in an English business, a qualified Assistant, under 24, of good address; climate healthy; salary progressive. Apply, by letter only, to "Colonial" (23/55), Office of this Paper.

SOUTH COAST.—Qualified Senior wanted, not over 30 years; to keep out; no Sunday duty; liberal time for recreation; Junior kept. Mr. Brisley (from Allen & Hanburys), Bexhill, Sussex.

STROUD.—By the end of June, a steady and reliable Assistaut, for good Retail and Dispensing. Applications, with full particulars and carte, to D. Smith, Market Place, Stroud.

TIBSHELF.—Immediately.—Wanted, a thoroughly reliable and trustworthy Assistant, accustomed to Mixed country trade; qualified preferred, but not essential; Extractor and Prescriber; indoors, comfortable home; no Sunday duty. Full particulars to W. F. Croft, Post Office, Tibshelf, uear Alfreton.

TRURO.—At once, a qualified Assistaut, aged about 25, capable of taking charge if required. Send references and photo to T. Anthony, Pharmacist, Truro.

WALLINGTON.—Assistant, outdoors, with good Dispensing experience, about 24, qualified or unqualified. Please give full particulars of experience, salary required, &c., W. J. Roberts, Wallington, Surrey, about 10 miles from London Bridge or Victoria.

WOLVERHAMPTON.—Smart Assistant for Counter; outdoors. Apply, giving references, experieuce, age, height, salary required, and enclose photo, to F. A. Willcock, 71 Victoria Street, Wolverhampton.

WOODSTOCK.—Wanted, Junior Assistant (indoors), one just finished apprenticeship not objected to, for Dispensing and General Country Agricultural business; no heavy trade; photography; hours easy, very little on Sundays. F. G. Gudgen, Woodstock, near Oxford (Blenheim Station, G.W.R.).

WORCESTER.—Outdoor Assistant, for the Dispensing-counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

WORTHING.—Assistant Senior, in good-class trade; seaside. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, 21 Montague Street, Worthing.

YORK.—Wanted, a smart Junior; must be good counterman; knowledge of photography essential. Apply, Coverdale, Chemist, 23 Parliament Street, York.

A QUALIFIED Gentleman, capable of teachiug Pharmacy, may hear of au opening as Partner in a flourishing Provincial School; capital required, £500. Address in confidence, X. (25/30), Office of this Paper.

ASSISTANT wanted, commencing salary from £90 to £110 per annum, plus commission, dependent ou experience; permanency to reliable man; all applications treated in confidence. Address "Cindiona" (166/31), Office of this Paper.

ASSISTANT wanted; must be quick, neat, and accurate Dispenser. Apply, sending copies of testimouials, with full particulars as to age, experieuce, qualifications, salary expected, if married, &c., to A. Z. (160/19), Office of this Paper.

ASSISTANT, active and obliging; about 4 days weekly at Retail counter and 2 days travelling in aud around Loudou; permauency to suitable man; give full particulars as to salary required, age, height, experience, and references. Address letter, iu first instauce, to "Otto" (166/15), Office of this Paper.

ASSISTANT wanted. Apply by letter, giviug age, references, and full particulars, to "Secretary," Leslie Martyn (Lim.), 34 Dalston Lane, N.E.

BRANCH Manager, qualified, wanted for high-class Suburban Branch; salary commencing at £150 per annum, plus commission; situatiou permanent, aud salary progressive to energetic business man; all applications treated in strictest confidence. Address "Saliciue" (166/32), Office of this Paper.

CHEMIST.—Salary £3 per week; required, Assistant Dispenser for Store trade; West-end; must be duly qualified. Apply by letter, stating full particulars of previous engagements, age, and qualification, to "Chemist," Chas. Tayler & Co.'s Advertisement Offices, 154 to 157 Fleet Street, E.C.

HAMILTON, LONG & CO. (LIM.), Apothecaries and Chemists, require a Chemist to take charge of their Laboratory; must be experienced in Analytical and Pharmaceutical work, and possess a knowledge of the Manufacture of Mineral Waters. Apply, stating experience, and salary expected, to 3 Lower Sackville Street, Dublin.

HARROD'S STORES (LIMITED) require a qualified Dispenser with London experieuce; also, a female Assistant, for Perfumery Department, and young man as Porter, for Laboratory; hours of business, 8 till 7; close 2 on Saturdays; personal application preferred between 9 and 11 A.M., or 5 and 7 P.M. Drug Department, 101, &c., Brompton Road, S.W.

JUNIOR or Improver wanted; salary progressive, commencing at £65 to £75 per annum, according to age and experience. Address "Resorcin" (166/33), Office of this Paper.

LEWIS & BURROWS (LIMITED) have vacancies for smart qualified and unqualified men; personal application preferred, if by letter please enclose photo, stating when disengaged, to 22 Great Portland Street, W.

LORIMER & CO. have on their books openings for several qualified Assistants, commencing salary £150; must be competent, quick, not under 23 years of age, and able to manage; several Juniors also wanted. Apply, with full particulars, Lorimer & Co., Wholesale Druggists, Britannia Row, London, N.

MANAGER wanted for a go-ahead business. State age, qualifications, and salary required, and all particulars, by letter only, to Harvey, 255 Kingsland Road, N.

PART-TIME Assistant; outdoors; qualified preferred; would suit Major student; hours to be arranged (very easy, about 40 per week). Apply, with full particulars as to age, height, and experience, with salary required, enclosing photo (if possible), to "Pharmacist" (168/25), Office of this Paper.

SITUATIONS OPEN—*cont.*

RETAIL—continued.

QUALIFIED Assistant; good character indispensable; outdoors. Send photo (to be returned) and full particulars to Wm. Fox & Sons, 109 and 111 Bethnal Green Road, London.

QUALIFIED indoor Assistant, about 26, required, for high-class Dispensing and Retail business. Address, stating experience, height, salary, &c., and enclosing photo (to be returned), to T. Woodruff, Ph.C., 43 Lapwing Lane, West Didsbury.

QUALIFIED Assistant, about 27, to take management occasionally; owner's health indifferent; hours 8 to 8.30, Fridays 9.30, Saturday 10; no Sunday duty; half-holiday every other week; youth 16 kept. State height, salary (outdoors), married or single, and references, to "Radix," Evans, Son & Co., Liverpool.

QUALIFIED Senior wanted, outdoors; good appearance and address; competent to take occasional charge of a quick Light Retail and Dispensing business in a pleasant London suburb; married or single, and one seeking permanency preferred; good salary offered to suitable man. Apply, with usual particulars, to "Statim," c/o Mace & Haldane, 94 Milton Street, E.C.

QUALIFIED Assistant wanted; indoors. Apply, with full particulars, to "Statim," c/o Messrs. Hearon, Squire & Francis, 38 Southwark Street, S.E.

SMART, qualified man required, at once, for management of Branch; must be steady, reliable, and experienced; good salary and prospects to suitable man. Apply, giving full particulars as to references, age, height, &c., and photo if possible, to Sussex Drug Co. (Lim.), 135 Queen's Road, Brighton; or call personally, between the hours of 12 and 1 on Saturday morning, at Granville House, Arundel Street, Strand, W.C., for interview.

TWO qualified Assistants wanted. State age, height, salary required, with reference, to Wand, Cash Chemist, 18 Haymarket, Leicester.

TWO Assistants, qualified and unqualified, with good experience, required for the South Coast, in a modern business, where others are kept; outdoors; easy hours; permanent situation; good salary. Apply, and enclose photo if possible, to "Radix" (168/23), Office of this Paper.

WANTED, Improver or Junior, for summer, or permanent; short hours. Apply, stating salary required and references, to Wells, Chemist, New Romney and Littlestone-on-Sea.

WANTED, an Assistant for a Surgical Instrument business; part time in Retail and to call upon Wholesale trade in town. Full particulars to "Aseptic" (164/4), Office of this Paper.

WANTED, Manager for Branch; must be qualified. Apply, before 12 or after 7, at 1 Mount Place, Whitechapel Road.

WANTED, at once, an energetic Assistant; must have first-class references; aged 23 to 30; single; 45*s.* week, outdoors. Also, in about a month, a qualified single Manager; 45*s.* week and furnished bedroom. "Delta," c/o Hodgkinson, 101 Whitecross Street, E.C.

WANTED, in Liverpool, a Manager for Branch, with small capital with view to purchase same. Apply, 165/30, Office of this Paper.

WANTED, qualified Chemist, young, energetic, and of good appearance to open out Retail in connection with old-established Wholesale business; one with a little capital to invest preferred. Full particulars to "Tyne" (165/15), Office of this Paper.

WANTED, a smart Junior, indoors, for a Light Retail and Dispensing business; must be competent to take charge occasionally; weekly half-holiday. Send full particulars as to age, height, experience, and salary required, and enclose photo (to be returned), to A. H. (166/27), Office of this Paper.

WANTED, Manager for small Branch at East Dulwich; Prescribing and Counter trade. Kindly state age salary required, and references, to F. H. Davies, Thornton Heath, Surrey.

WHOLESALE.

BIRMINGHAM.—Drug and Drysaltery.—Wanted, competent man, experienced mixing and putting-up goods for Wholesale shop trade: no one entertained unless having served in the position; will be required to pack goods for rail. State full particulars, age, experience, salary, and references, Woolf, Anchor Works, Upper Highgate Street, Birmingham.

CAPE COLONY.—Wanted, for the Wholesale, a smart man thoroughly experienced in both Wets and Drys. Apply, by letter only, to "Cape," c/o Warner Bros., 131 Finsbury Pavement, London, E.C.

CAPE TOWN.—Good Sundriesman required, about July; £10 per month; abstainer preferred. State age, qualifications, experience, and references, F. M. (23/59), Office of this Paper.

SOUTH AFRICA.—Packer wanted, in a healthy seaport town, in a Wholesale Drug and Sundries House; unmarried, and not over 30; must have thoroughly good all-round experience. Apply, in the first place, by letter only, to L., 75 Leadenhall Street, London, E.C.

ASSISTANT, for provincial Wholesale house; accustomed to Pill Making and Coating. State salary required, references, and full particulars as to experience, 146/6, Office of this Paper.

CLERK wanted, for Hamburg correspondence, shorthand, and if possible typist, for Pharmaceutical Specialities and Drug business: also young gentleman who is desirous of learning the language and German business experience. Advertiser will be in London from June 19th to the 24th, at the Manchester Hotel, Aldersgate Street, E.C., for personal interview. Apply, stating experience and salary required, to Otto Ernst, Esq., Hamburg.

TRAVELLER, with connection among Chemists and Hairdressers, town and country, to push well-known Proprietary Articles. Apply, Z. (167/27), Office of this Paper.

TRAVELLERS.—(Side Line) one or two gentlemen calling upon Chemists to Introduce Labern's Choice Popular Perfumery; beautiful goods; liberal commission and bonus. Full particulars, ground covered, &c., to H. Labern & Son (Limited), Harp Works, Stoke Newington, N.

WANTED, capable man, experienced in the manufacture of Tablet, Bottled and Granulated Jellies. Only first-class men need write, with full particulars, salary required, &c., to "Jelly" (23/59), Office of this Paper.

WHOLESALE.—An outdoor Assistant, as Warehouseman; aged 25 to 30. Apply by letter, to Squire & Sons, 413 Oxford Street, W.

WHOLESALE.—Wanted, at once, for permanence, young man (qualified, smart, active) to take charge Laboratory of Patent Medicine; able to mix in bulk, buy and superintend bottling, labelling, and packing. Apply at once, stating lowest salary, &c., "Delta" (164/30), Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM; aged 53; disengaged. Michell Trick, Newton, Mumbles.

LOCUM; day or more; good Prescriber. "Chem," 4 Mayfield Road, Dalston, N.

QUALIFIED; 29; outdoors; London or district only. 167/17, Office of this Paper.

COUNTERMAN, use to brisk Store trade; unqualified. N., 18 Prebend Street, Islington.

LOCUM-TENENS; qualified; disengaged. Wellings, 259 Broad Street, Birmingham.

QUALIFIED; 8 years' experience. Apply to Scott, 140 Rawlinson Street, Barrow-in-Furness.

LOCUM; Major; 24; good London experience; highest references. Payne, Market Parade, Ilford.

PART-TIME (22) in good-class business; London; indoors. A. R., 95 Cheriton Road, Folkestone.

MANAGER or Locum; Prescriber; City references. B., 14 Lawrence Street, Radford, Nottingham.

MANAGER; qualified; 33; permanency; 5 ft. 8 in.; good references. "Spes, 60 High Street, Exeter.

JUNIOR; 21; height 6 ft. 3 in.; in or near London; good references. Apply, 169/11, Office of this Paper.

ABROAD.—South Africa preferred; aged 24; good references; unqualified. 167/1, Office of this Paper.

EVENING work; Counter or Dispensing; qualified. "Chemist," 33 Kersal View, Pendleton, Manchester.

MARRIED Assistant seeks permanent situation; aged 36; qualified "Sarum" (163/19), Office of this Paper.

ASSISTANT; 25; unqualified; good experience; disengaged. Wallace, 162 Kennington Park Road S.E.

JUNIOR; unqualified; aged 21; country experience; London preferred; outdoor. 166/30, Office of this Paper.

QUALIFIED; 25; outdoors; London West-end experience. "Trional," 2 Windsor Terrace, Upland, Swansea.

YOUNG French Chemist requires berth to gain English experience; services free. Lucien, 124 Lordship Road, N.

ASSISTANT; 22; unqualified; references; Photography; Midlands preferred. "L." (160/23), Office of this Paper.

LOCUM or Dispenser; varied experience; Extractor; a few weeks to fill up. L., 32 Spendon Road, South Tottenham.

HOLIDAYS; temporary; experienced; qualified; disengaged June 19. "Chemist," 12 Wellington Place Hastings.

ASSISTANT; qualified; good experience and references; Photography; disengaged. Lenton, Clifton, Bigglesvade.

QUALIFIED; first-class experience; tall; 23; outdoors. "Bromoform," Meadow View, Datchet Road, Slough, Bucks.

ASSISTANT; 5 ft. 7 in.; 7 years' experience; knowledge of Photographic trade. "Aletris," 2 Hampden Street, Liverpool.

AS Junior in Store or quick Cash business; outdoors preferred; good London experience; aged 22. "Xtal," 14 St. Aldates, Oxford.

SENIOR or Manager; Minor qualification; high-class West-end and South-coast experience; outdoors. 164/7, Office of this Paper.

JUNIOR; nearly 20; 4 years' good experience; London preferred; disengaged July. G. H. T., 308 Upper Brook Street, Manchester.

ASSISTANT, or Branch; married; Prescriber; in or near Nottingham.

LOCUM; disengaged till 16th; age 35; thoroughly competent, steady, sober; London or South. "Chemist," The Stag, Alresford, Hants.

MANAGER-ASSISTANT; qualified; 29; 13½ years' all-round experience; disengaged June 27. R., 16 Cavendish Street, Ramsgate.

LOCUM-MANAGER; qualified; 25; London experience; good references; disengaged July 3. Lambert, 247 Lower Clapton Road, N.E.

MANAGER or Senior (outdoors preferred); 26; qualified; good all-round experience; extractor; abstainer. Williams, 110 Falcon Road, S.W.

JUNIOR, 5 ft. 7½ in., 4½ years' experience, desires situation in or near Manchester; reference given; Photography. Wallwork, Chemist, Tyldesley.

MANAGER or Senior; 28; qualified; West-end and South Coast experience; outdoors preferred. "Photos," 149 Western Road, Brighton.

MANAGER (Branch), qualified; 38; married, no family (live on premises); Manchester district preferred. Apply, 165/13, Office of this Paper.

MINOR Student, 24, desires part time engagement, 8 A.M. till 5 or 6 P.M.; Birmingham preferred. Evans, Titford Locks, Oldbury, Birmingham.

DISENGAGED; Locum or otherwise; Mixed experience; well recommended; abstainer; 40; unqualified. "Statim,' 42 Vine Street, Uxbridge.

LOCUM; disengaged two or three days a week, or three or four evenings a week at 5 P.M.; in or out town. "Quassia," 30 Eversholt Street, London.

ASSISTANT; 10 years' thorough all-round experience; well recommended; outdoors preferred. O. H., 51 Euston Street, High Wycombe, Bucks.

MANAGE, work up, or open small Branch; 25; immediate permanency desired; just disengaged; unqualified. "Energy," 230 Albany Road, S.E.

JUNIOR; unqualified; 5 ft. 11 in., dark; 22; 4½ years' country, 2 years' London experience; City or West preferred; good references. 166/2, Office of this Paper.

MANAGER or Assistant; qualified; 28; married; experienced; trustworthy references; Midlands preferred. "Ralph," c/o R. Stevenson, Bourne, Lincs.

ADVERTISER requires Part-time in Retail, or Dispensership to medical man; in or near London; 12 years' good experience; reference as to character, ability, &c., excellent; 30; married. "Harlene" (168/36), Office of this Paper.

MANAGER; qualified; quick Dispenser; accustomed to first-class West-end trade; exceptional testimonials; disengaged. "Radix," Broadwater Farm, Merton Park, S.W.

HOLIDAYS.—F. G. Shrimpton, Grove Street, Oxford, will undertake duty for Chemists, Institutions, Surgeons; qualified; first-class references; disengaged until July 21.

MANAGER; Locum or Dispenser; qualified; middle aged; good Prescriber; disengaged; no encumbrances. "Chemicus," 68 South Lambeth Road, Vauxhall, London, S.W.

FOREIGN Chemist (23), tall, good London experience, speaking French and English, desires situation in a good Pharmacy; excellent references. "Menthol," 162 Regent's Park Road, N.W.

PARTNERSHIP or Management; 20 years' first-class experience; moderate capital; unqualified; energetic; would entertain succession. Particulars, "Rex" (168/27), Office of this Paper.

ASSISTANT or Manager; Retail or Wholesale; London and Country experience; unqualified; active, sober, and reliable; middle-aged, married, no family; good references; moderate salary. 168/35, Office of this Paper.

MANAGER or Senior; aged 31; unqualified; good prescriber; thorough knowledge of Dentistry and Photography; married; preference to live on premises; London or South Coast; thoroughly experienced in managing good-class Store; highest references. Write, "Permanency" (165/24), Office of this Paper.

WHOLESALE.

AGENT, large connection Ireland, wants first-class commission. Reply, "Belfast" (163/27), Office of this Paper.

DRY-ROOM Assistant seeks situation; 12 years' experience; good references. "Camphor," 18 Eversholt Street, N.W.

ACCOUNTANT, Bookkeeper, desires appointment (knowledge Drugs); or Retail. 22 Waldegrave Road, Brighton.

WANTED, situation in Wholesale; 14 years' Retail experience; would not object to travel. "Alph," 70 Perrymead Street, Fulham, S.W.

WANTED, situation in Wholesale; 5 years' experience in Retail; aged 20; small salary at first. Apply, J. G. M. (166/1), Office of this Paper.

ASSISTANT; 35; wet or dry counter; Wholesale and Retail experience; salary not so much object as permanency. G., 9 Willow Row, Horncastle.

AS Traveller to first-class firm; London preferred; qualified Chemist; Retail and Country Wholesale experience; good appearance and references. A. B. (164/29), Office of this Paper.

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BOOKS AND PERIODICALS.

Cooley's "Encyclopædia," 2 vols., 22*s.* 6*d.*; Cassell's "Family Physician," 4 vols., 15*s.*; Beutley's "Materia Medica," 4*s.*; all good as new. WRIGLEY, Golcar, Huddersfield.

"Minor Ailments"; Alpe's "Stamp Duty"; "Manual Formulæ"; Pye's "Bandaging"; Beasley's "Formulary," "Prescriptions"; Roberts's "Ambulance Work"; "Art Dispensing"; "Practical Perfumery"; Martindale's "Coca"; offers? 22 Waldegrave Road, Brighton.

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OPTICAL AND PHOTOGRAPHIC.

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What offers for 5-guinea "C" Daylight Kodak? new three months ago. PATERSON, 51 Chelverton Road, Putney.

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Bovril, 7 % ordinary shares; £1 shares; 20 shares for sale; offers invited 24/22, Office of this Paper.

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MISCELLANEOUS.

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Assorted stock Anglo-Spanish cigarettes and smoking-mixture, amounting at retail prices to £10; 60 % discount, or offer. 163/21, Office of the Paper.

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Camwal shares. State number and lowest price to LAWRENCE, Chemist Rhyl.

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Old electric lamps and scrap platinum. P. ROWSELL, 9 Derwent Grove East Dulwich, London.

Second-hand chemist's show-lamp; also dental-forceps. HIRD, 52 Westgate Street, Gloucester.

"Homœopathic Pharmacopœia." State edition and price, GRIFFITH, 16 Bishop's Road, W.

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Camwal or Kodak share or shares. State lowest price, not including transfer, 166/22, Office of this Paper.

Attfield's "Chemistry," Newth's "Inorganic Chemistry," Kipling's "Organic Chemistry," Green's "Botany," Southall's or Will's "Materia Medica." SMITH, 27 Park Road, Twickenham.

"The Chemist and Druggist" for May 6, 1899. 4*d.* each will be paid for complete copies, posted flat and sent with address-label on outside wrapper to WILLIAMS, 92 Victoria Road, New Brighton, Cheshire.

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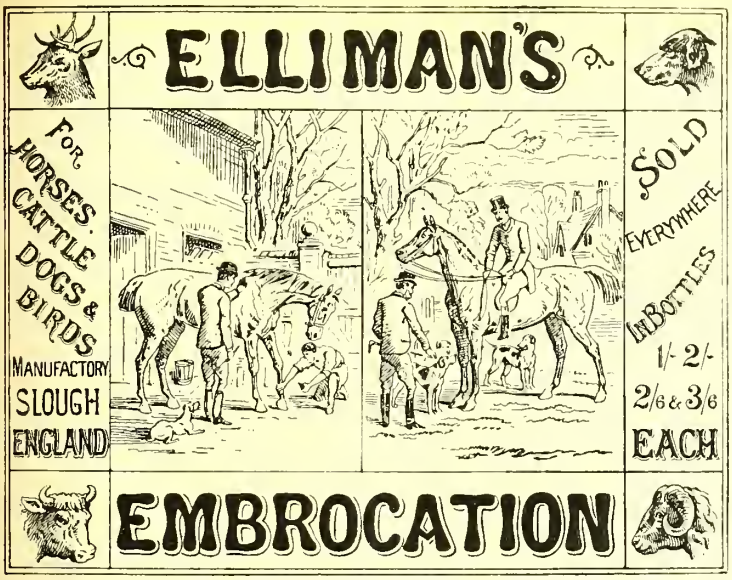

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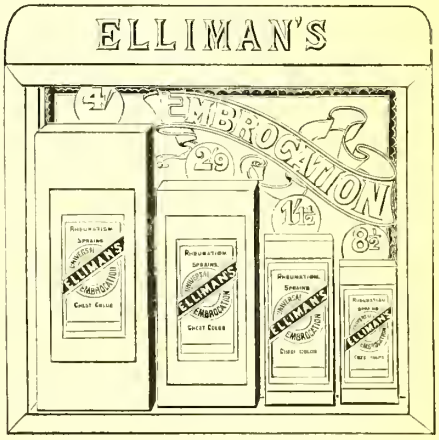

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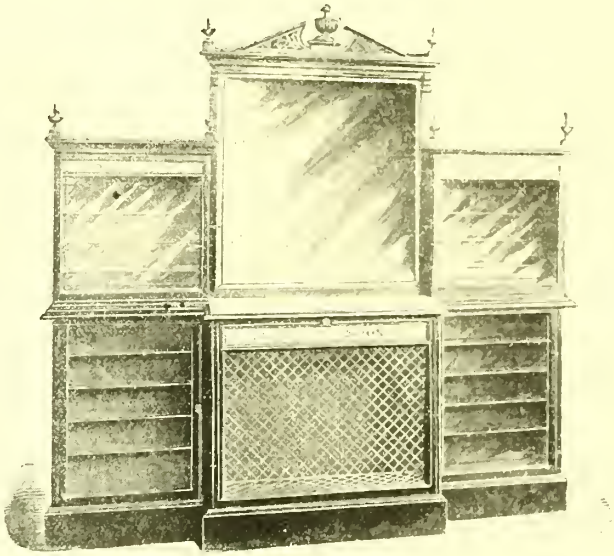

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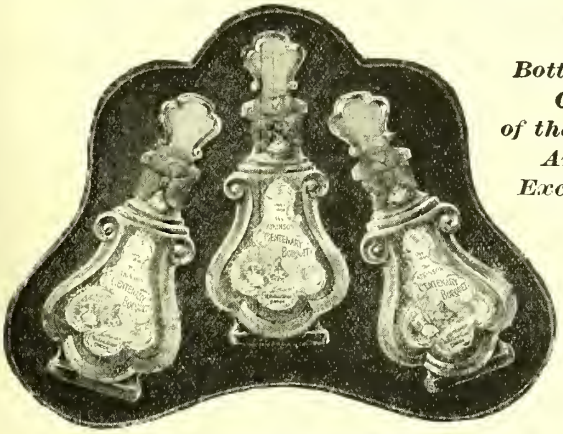

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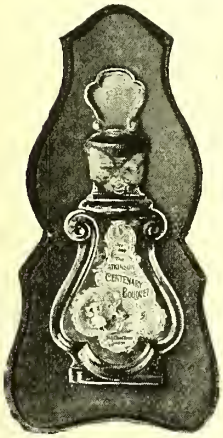

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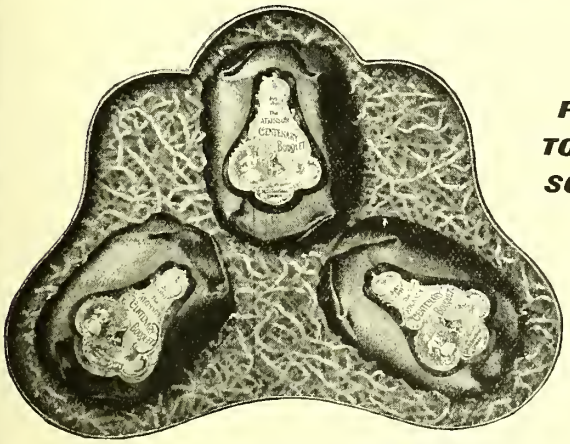

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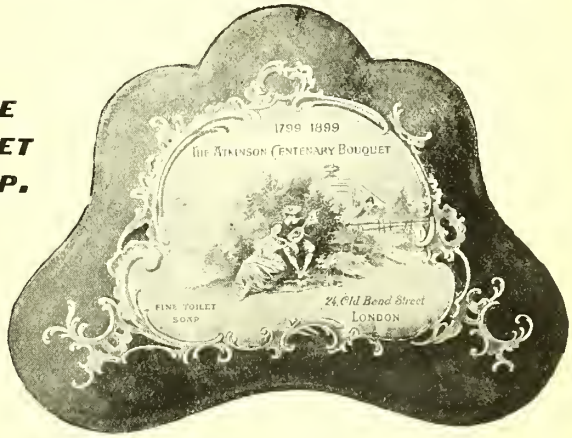

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ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

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Mason, C. E., & Co.
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Burgoyne, Burbidges & Co.
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Evans, Lescher & Webb
Evans, Sons & Co.
Goodall, Backhous & Co.
Howards & Sons (Pharm.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
May & Baker, Lim.
Sanitas Co., Lim.
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Smith, B. A., & Co.
Smith, T. & H., & Co.
Stevenson, H. E., & Co.
Typke & King
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White, A., & Son

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Steele, J. C. & Co.

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Solport Bros.
Wood, Vincent

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Smith, T. & H., & Co.

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Nell, B. & J.

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Hovenden & Sons
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Kühn, B. (Chinosol, Kresochine)
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Major & Co., Lim.
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Sanitas Co., Lim.
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Fletcher, Fletcher & Co.
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Stevenson & Howell
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Ransom, Wm., & Sons
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Sonio & Andrioli
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Youldon, E.

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Evans, Sons & Co.
Fenning (Powders)
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Holloway (Pills and Oint.
Hovenden & Sons
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Sandrons, Lim.
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Allen & Hanburys, Lim.
Atkinson, J. & E., Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale, Lim.
Blondeau & Cie. | Boehm, F.
Burgoyne, Burbidges & Co
Burroughs, Wellcome & Co
Bush, W. & J., & Co.
Carmichael, M. W.
Chesebrough Co.
Cook, E., & Co.
Corbyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M
Gilbertson, H., & Sons, Lim.
Gillespie, F., & Co.
Greeff, R. W., & Co.
Hovenden & Sons
Lanoline
London Essence Co.
Lynch & Co., Lim.
Marshall's, Lim.
Mason, C. E., & Co.
Newbery F., & Sons (Berdoes)
Parkes, J., & Co.
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Roberts & Sheppey
Sainsbury, S.
Sanger, J., & Sons
Schutze, F., & Co. [Co. Lim.
Sharp Bros. Soap & Perfumery
Sinclair, Jas., & Son
Tidman & Son | Treatt, R. C.
Van Oppen & Co.
Vigo, Jules, & Co., Lim.
West, T. (Okell's Mona)
Wright, Layman & Umney

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co.
Sanitas Co., Lim.
Tyrer, T., & Co., Lim

PESSARIES
Bendell, W.

PTRLEUM JELLY, &c.
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Haller, G., & Co.
Snowdon, Sons, & Co., Ld. Jelly)
Stern Bros.

PHOTOGRAPHIC X RAY, &c
Barclay & Sons, Lim.
Boehm, Fredk.
Burroughs, Wellcome & Co.
Butcher, W., & Son
Darton, F., & Co.
Edwards, T., & Co
Evans, Sons & Co.
Houghton, G., & Sons
Lockyer, J. E.
Lowe, B., & Co.
Mackey, Mackey & Co.
Mawson & Swan
Maxwell, Bayes & Co.
Raphael, J., & Co.
Ross Lim.
Shew, J. F., & Co.
Thornton-Pickard Co., Lim.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co., Lim.
York & Son

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Bennett, Sons & Shears
Pindar, J. W.

PHARM. PREPS.
Allen & Hanburys
Allison, Johnson & Forster, Ld.
Armour & Co. | Balss Bros
Barron, Harveys & Co.
Bayer Co., Lim.
Boehm, Fredk.
Boehringer, C. F., & Sohne
British Somotose Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Ferris & Co.
Fletcher, Fletcher & Co
Hearon, Squire & Francis
Hewlett & Son
Hoffmann, La Roche & Co.
Howards & Sons
Lageman, C.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Oppenheimer, Son & Co
Parke, Davis & Co.
Potter & Clarke
Sandrons, Lim.
Smith, T. & H., & Co.
Smith, W. E., & Co.
Squire & Sons
Stern Bros.
Stevenson, H. E., & Co.
Tyrer, T., & Co.
"Vasogen"
White, Alfred, & Sons
Wilkinson & Simpson, Lim.
Willows, Francis, Butler & Ayscough Thompson
Woolley, Sons & Co.
Wyleys Lim.

PILLS, Coated, &c.
Allen & Hanburys, Lim
Beecham, Thomas
Bleasdale & Co., Lim.
Cox, Arthur H., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Holloway, Professor
Kearsley, C. & G.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Powell, Thomas, Lim.
Scottish Sugar-coated Pill Co.
Scott's, Dr.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyleys, Lim.

PLASTERS
Chesebrough M'f'g. Co.
De St. Dalmas, A.
Evans, Sons & Co.
Seabury Johnson
Solport Bros. (Court)
Timpson, J., & Co.

POLISHING
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Bradley & Bourdas (Albatum)
Fordham, W. B., & Sons, Lim.
Oakey, J., & Sons, Lim.
Raimes & Co. (Stockton)
Spink & Son

PRINTING
Blake & Mackenzie
Bowers Bros.
Bowles & Co.
Corsan, J. R. (Glass.)
Ford, Shapland & Co.
Gilbert & Rivington, Lim.
Harrison & Waide
Patent Caution Label Co.
Silverlock, H.
Thomas & Co.
Townsend, J.

QUININE
Boehringer, C. F., & Sohns
Howards & Sons
Imperial Quinine Co.
Smith, S., & Co. (Wine)
Zimmer & Co.

RENNET
Duncan, Flockhart & Co.
Fullwood, R. J., & Bland
Tomlinson & Hayward

RESPIRATORS
Solport Bros.

RUBBER STAMPS
Bond, J. (Crystal Palace)
Richford, E. M.

SACCHARIN
Anglo-Continental Chemical Works, Lim.
Saccharin Corporation, Lim

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SAUCES, PICKLES
Goodall Backhouse & Co.

SEA SALT
Tidman & Son, Lim.

SEEDS
Potter & Clarke

SEIDLITZ POWDER
Hora & Co. | May, Roberts & Co

SELTZOGENES
Geraut, E., & Co.
May, Roberts & Co.
Thessler, E.

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Central (Edinburgh)
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Glasgow Royal Infirmary
Glasgow School (J. Lothian)
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Laurance, L. (Optical)
Leeds College of Pharmacy
Liverpool School
London College
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Queensborough College
Royal Dispensary (Edinburgh)
South London School of Pharmacy, Lim
West of Scotland College
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SHAVING
Hovenden & Sons (Euxesis)
Lloyd, A., & Co. (A. S. Lloyd's Euxesis)

SHEEP DIP
Cooper, W., & Nephews
Fletcher Bros. & Co.
Jeyes' Sanitary Compounds Co.
Sanitas Co., Lim.

SHOP FITTERS
Alstrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, J. & W.
Ellison, F. E., & Co
Evans, Sons & Co
Josephs, Philip, & Son
Maw, S., Son & Thompson
Mitchell, A.
Parnall & Sons, Lim.
Treble, G., & Son

SIZE
Meggett, S., & Sons, Lim.

SPECTACLES, &c.
Anglo-American Optical Co., Lim.
Botwright & Grey
Darton, F., & Co
Edwards, T., & Co.
Laurance, L.
Raphael, J., & Co.
Worshipful Company of Spectacle Makers

SPONGES
British Syphon Co.
Cohen, I. & M.
Cresswell Bros. & Schmits
Peterson, M., & Co.

SOAP
Allen & Hanburys, Lim.
Ayrton & Saunders
Beetham, T., & Son
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Cooper & Co.
Crosfield, J., & Sons, Lim.
Gibbs, D. & W. (Medicated)
Hydroxene Co.
Mackenzie's, Dr. (Arsenical)
Pears, A. & F., Lim.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap, &c., Co., Ld.
Tidman & Son
Vincia Co., Lim.
Wright, Layman & Umney

STARCH
Hebden, W. C. (Gloss)

STERILIZERS
Hawkesley, T.
Lumley, L., & Co.

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Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SURGICAL
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Davol Rubber Co.
Eschmann Bros. & Walsh
Ferris & Co.
Galen Manufact'g Co., Lim.
Gibbs, Darton, Co., The
Gilbertson, H., & Sons, Lim.
Haywood, J. H.
Krohne & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co
Matto, Lim.
Maw, S., Son & Thompson
Oppenheimer, Son & Co., Lim.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitary Wood Wool Co., Lim.
Schutze, F., & Co
Wood, Vincent
Woodruff, T.

SUGAR
Macfie & Sons

SYPHONS
Barnett & Foster
British Syphon Co.
Chemists' Aerated and Mineral Waters Association, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

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Beckett, W., Sons & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell

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Kahnemann & Krause
Lambert A., & Co.
Roberts & Sheppy

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Thomas & Co.
Tower Tea, Lim.

TEETHING PADS
Barclay & Sons, Lim.
Marriott, E., & Co.

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Bailey, W. H., & Son
Darton, F., & Co.
Pastorelli & Rapkin

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Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Wyleys, Lim

TOBACCO & CIGARS
Barclay & Sons, Lim.
Singleton & Cole, Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Maw, S., Son, & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Woods, M. (Areca)

TRADE MARK AGNTS
Barker, Reginald W.
Chapman, J. C., & Co.

TOILET
Allen & Hanburys, Lim
Ayrton & Saunders
Barker, F., & Son
Beetham & Son
Burroughs, Wellcome & Co. (Lanoline)
Crosfield, J., & Sons, Lim.
Dee Oil Co., Lim.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Quelch, H. C.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap & Perfumery Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Vinolia Co., Lim.

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Vaccine Association (Lymph)

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Judd & Manners
Orridge & Co.
Tomlinson, Thos., & Son

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Pavia, F.

VARNISHES, &c.
Pinchin, Johnson & Co.

VASELINE
Chesebrough Co.

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Day & Sons
Day, Son & Hewlitt
Ellinan, Sons & Co.
Harvey & Co.
John, A., & Co.
Lloyd, T. Howard, & Co.
Rackham & Co.
Sanitas Co., Ld | Spratt's (Dogs
Walker, Troke & Co.

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Vinolia Co., Lim.

VINEGAR
Beaufoy & Co.
Grimble & Co.

WEED KILLER
Acme Chemical Co., Lim.
Fletcher Bros. & Co.
Harrison, G. W.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT DRUGGISTS
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Allen, S., & Son
Allison, Johnson & Forster, Ld.
Bales Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co
Lofthouse & Saltmer
London Essence Co.
Macfarlan, J. F., & Co.
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis, Butler & Ayscough Thompson
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS, BEER, &c.
Beaufoy & Co.
Bowen & McKechnie
Burrough, J.
Clark, J.
Coleman & Co., Lim.
French Hygienic Society
Goodall, Backhouse & Co.
Holloway's Wine Co., Lim.
Millar, A., & Co. (Orange)
Phillips, G., & Co.
Robinson, B. (Orange)
Smith, S., & Co., Lim. (Orange)
Stevenson, H. E., & Co.,
Symons, J., & Co., Lim.
Wilcox & Co., Lim.
Wright, Layman & Umney
Wyleys, Lim.

The value of Bovril as a culinary adjunct is well known to all experienced cooks and housewives; while in the sick-room it is esteemed as a most valuable recuperative food. Hence Bovril is in demand all the year round.

Virol

is a combination of Red Bone Marrow, Malt Extract, Eggs, and Lemon Juice, simply invaluable for weakly children. The taste of Virol is delicious. The LANCET says it is "*an ideal form of fat for children and invalids.*"

BOVRIL, LIMITED, Food Specialists, **30 Farringdon St., LONDON, E.C.**

Contractors to H.M. and Foreign Governments.

ADVANCE IN MEDICAL GLASS

S. MAW, SON & THOMPSON beg to inform the Trade that, in consequence of the increased cost of production entailed by the great advances in the price of fuel and other raw materials, together with the very considerable restriction of the hours of labour by the Workmen's Trade Union, it has been found imperative to raise the prices of Medical Dispensing Bottles, &c., 10 per cent. from this date.

June 1, 1899.

The Chemist and Druggist Summer Issue *JULY 29, 1899.*

INSERTION OF CIRCULARS.

With this issue of "THE CHEMIST AND DRUGGIST" all kinds of trade circulars and price lists can be stitched. They must be on paper of size similar to the pages of "THE CHEMIST AND DRUGGIST," but they may be of any colour.

This is the cheapest and most effective way of bringing a circular to the notice of the trade. For, besides being annexed to a journal which is sure to attract attention, and is fairly certain to be kept, the cost is not more than one-third that of postage alone, and the advertiser gets the benefit of the finest list of names, home and colonial, obtainable.

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Circulars for insertion in "The Chemist and Druggist" must be on paper similar in size (printed matter 9 × 6¼) to those of that Journal, but may be of any tint; they must be folded singly (or otherwise folding will be charged for). Each page must bear the headline: "Supplement to The Chemist and Druggist, July 29, 1899," and the Circulars must be delivered to us not later than July 22, 1899.

Chief Office: 42 CANNON STREET, LONDON, E.C.

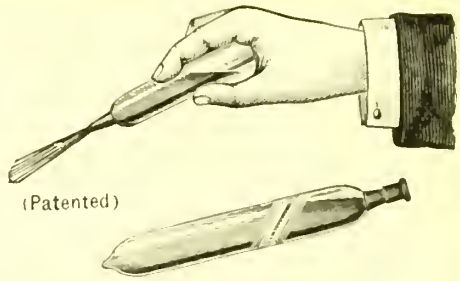
Australasian Offices ELIZABETH STREET, MELBOURNE.
POST OFFICE CHAMBERS, PITT STREET, SYDNEY, N.S.W.

WHAT DOES THIS MEAN?

See page 13 in next week's *C. & D.*

NEW LINES FOR CHEMISTS.

LANCE PERFUMES



(Patented)

See references in the Winter Number of The Chemist and Druggist, January 28th, to the Editorial Notices in

THE QUEEN, ILLUSTRATED LONDON NEWS, BLACK AND WHITE, THE GENTLEWOMAN, THE LADIES' PICTORIAL, THE WORLD, TRUTH, etc.

And also Terms for Competition by Chemists.

£20 First Prize, £10 Second Prize, £5 Third Prize.

Will be Supplied through Wholesale Firms ONLY to Chemists. For information apply to SOLE AGENTS for United Kingdom and Colonies (except Canada):

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Manufacturing Perfumers, **JULES VIGO ET CIE., LTD.** 24 Newbury Street, Aldersgate, E.C.

SPECIALITIES :

ZENO'S HIGHLAND HEATHER, all sizes, from 1/3 size to 10/6 size. The demand for this high-class Perfume is increasing daily.

VIGO'S TOILET PREPARATIONS IN ENAMELLED COLLAPSIBLE TUBES.

TOOTH PASTES—Cherry, Areca Nut, Rose, Carbolic, and White Rose.

COLD CREAM, with Otto, with Parma Violets, and with Lanoline.

TOILET CREAMS AND JELLIES—Glycerine and Honey Jelly, Glycerine and Cucumber Jelly, Hamamelis Cream, Toilet Cream prepared with Lanoline.

SUNDRY—Vaseline, Petroleum Jelly, Shaving Cream, Pomade Hongroise.

Customers supplied with their own name on Labels if required.

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6d. size, 45/- per gross; 1/- tablets, 90/- net cash.

Dr. Mackenzie's Improved Harmless Complexion Wafers.

2/9 size, 21/- per dozen; 4/6 size, 36/- per dozen.

Dr. Mackenzie's Face Lotion.

3/6 size, 30/- per dozen bottles; 5/- size, 40/- per dozen.

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3/6 size, 27/- per dozen; 5/- size, 36/- per dozen.

"Bloom of Clematis" Face Powder.

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With the New Year Dr. Mackenzie's Toilet Specialities are being put up in most artistic boxes, which make them very effective for window exhibition.

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Price List and Terms upon application.

Makes the Skin Soft and Delicate.

HYDROXENE

SOAP

Invaluable for the Nursery and Toilet.

HYDROXENE Co., Old Stratford, STONY STRATFORD.

WOODS' ARECA NUT TOOTH PASTE 6d & 1/- PER POT

Sold EVERYWHERE.

Largest Sale in the World. Hundreds of Testimonials. Have no Substitute.

Also in Collapsible Tubes, 1s. each.

WOODS, PLYMOUTH.

Removes Tartar, Whitens the Teeth, Sweetens the Breath, and Checks Decay.

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PRIZE MEDAL.

Recommended by Eminent Medical Men.

Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class Soaps, and is altogether the best extant for producing a Clear and Healthy Skin

The longer it is kept the more it improves and increases in value.

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ESTABLISHED 1862

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Perfume Manufacturers,

CANNES-GRASSE, FRANCE.

ESTABLISHED 1820.

GOLD MEDALS—Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

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SPECIALITY — Finest Quadruple Extracts of inimitable and lasting Fragrance.

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"OLLAPEARL" DENTIFRICE.

In novel and ingeniously constructed Box, preventing waste or mess.

Perfumed and Carbolic, 6d. and 1/-. Bonus with First Order. Further particulars from

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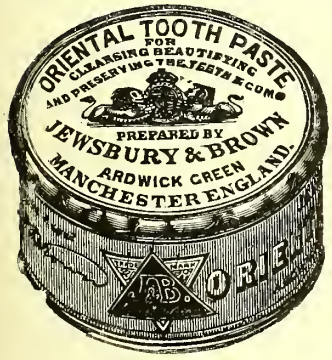

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Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

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SPECIALLY RECOMMENDED FOR LADIES.

IS THE NON-GREASY COMPANION OF TATCHO.

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Guaranteed free from Oil or Fat.

TATCHO EMBROCATION

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ROBARE'S AUREOLINE

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FINEST ORANGE WINE FOR QUININE.

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LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.

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VANILLOES—Direct Importation.

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GELATINES (all kinds).

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Write for Price List and Samples.

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"CHAMELEON" FLY-CATCHER

(A COLLAPSIBLE TUBE WITH A SLOTTED MOUTHPIECE).

The Chameleon Fly String

PATENTED THROUGHOUT THE WORLD.

FOR FLIES, WASPS, MOSQUITOES, Etc.

Non-Poisonous.

The Chameleon Fly String.

FOR HOME AND EXPORT.

"Let 'em All Come."

FOR HOME AND EXPORT.

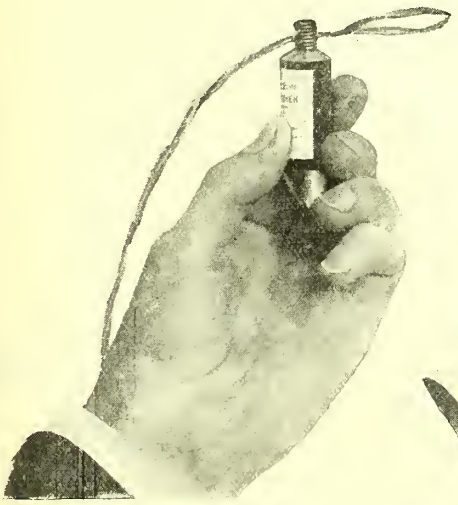
"Let 'em All Come."

THE Phenomenal Success of the Fly Strings, and their admitted superiority to sticky fly-papers for catching flies, has led an ingenious individual to patent an apparatus which combines a reservoir to contain a supply of fly-gum, with means for spreading the gum on a succession of strings. This result has been accomplished by **adapting a collapsible tube for the purpose, with a slotted mouthpiece.**

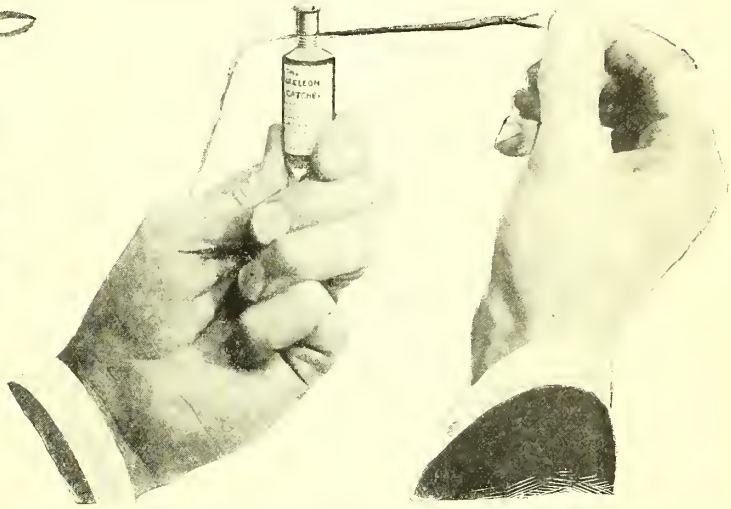
☛ *See opposite page.*

Nothing could exceed the simplicity of the idea!

THIS IS HOW IT'S DONE.



Place a Looped Bass or Rafia in the Slot.



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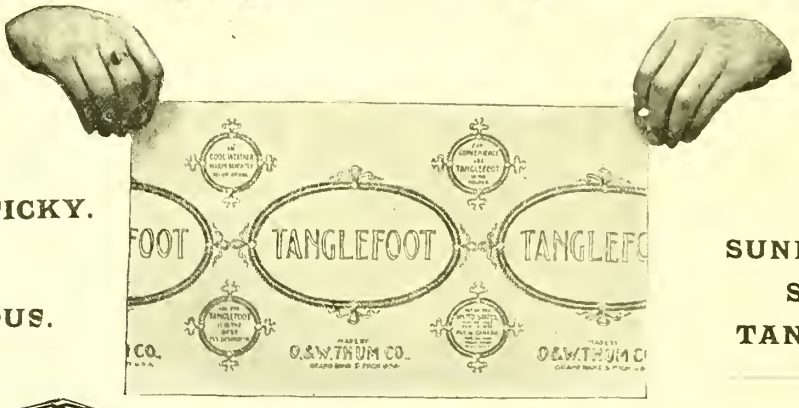

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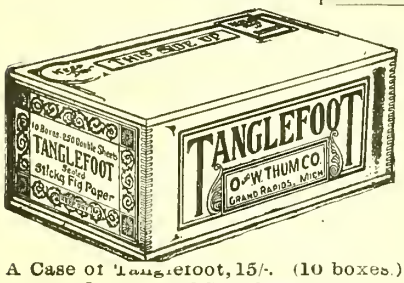

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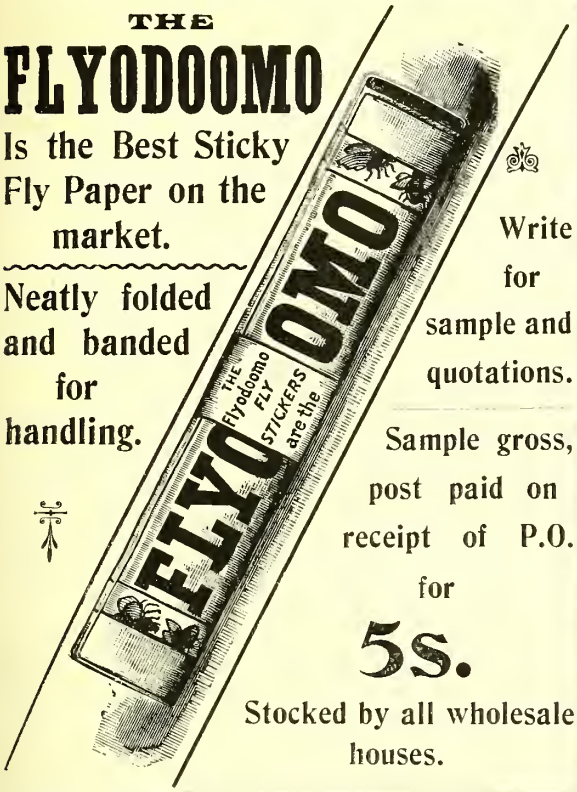

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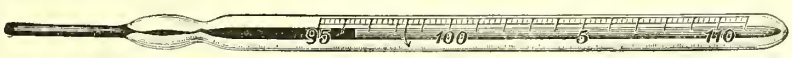

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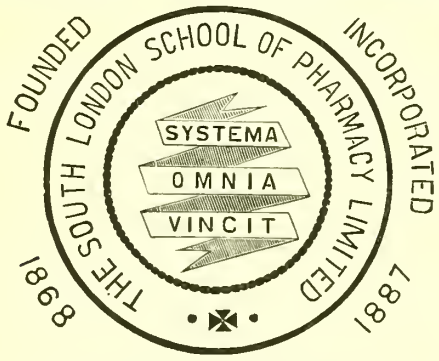

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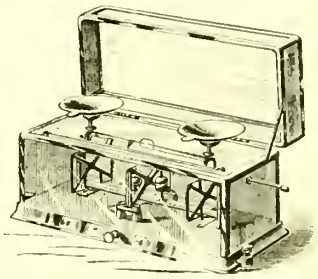

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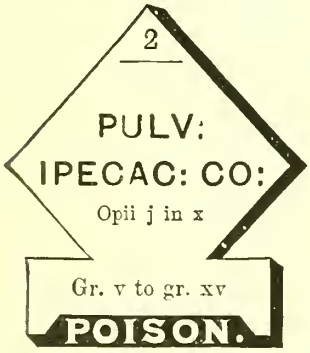

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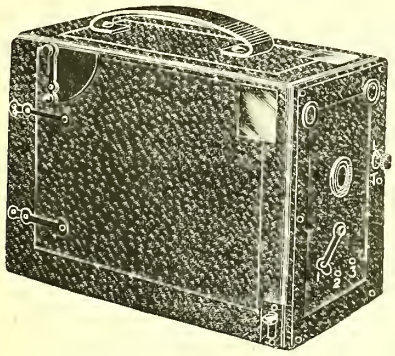

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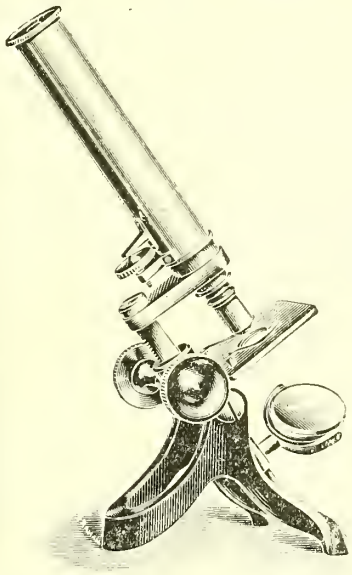

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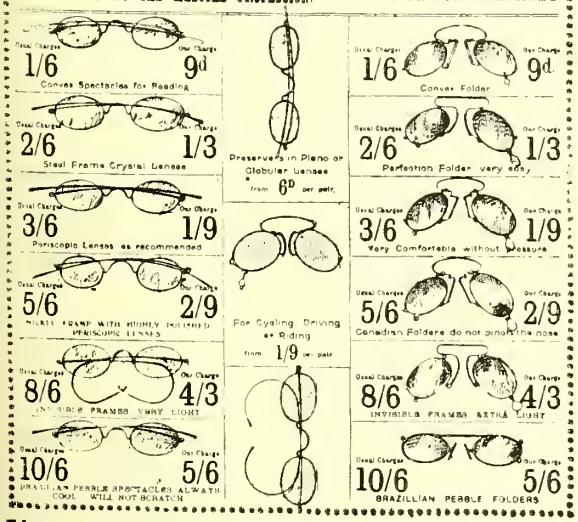

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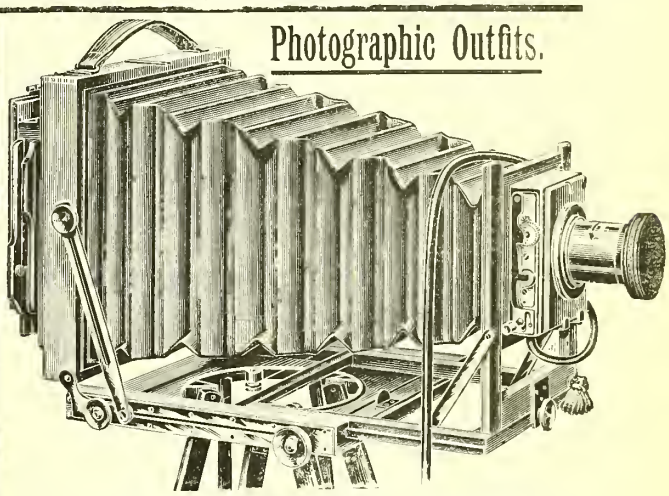

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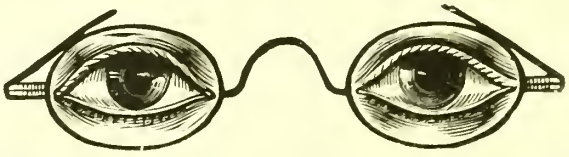

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PATENTED in England, France, Germany, United States of America, Canada, Hungary, Russia, Belgium, Italy, Spain, Austria, Mexico, Brazil, Japan, New Zealand, India, and New South Wales.

"AURA" SELF-TONING PAPER is a Printing-Out Collodion Paper of exquisite quality which will undoubtedly command a very large sale. It appeals to the Professional and Amateur Photographer alike, as it does away entirely with the tedious operation of Toning. It is simple and easy to handle, saves Time and all Toning Materials.

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The Glossy gives a delicate purple tint.

The Matt gives the beautiful and artistic Sepia Tone. If a black and white Platinotype effect is desired, it can be produced by using any good Platinum Bath.

The Results are Beautiful and Uniform, and a Positively Permanent Gold Picture is obtained.

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3½ × 2½ (F.P.K.)	6d.
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4¼ × 3¼ (¼-Plate)	10d.
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5½ × 3½ (Small Cabt.)	1/-
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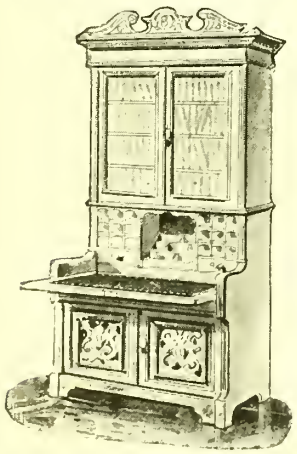

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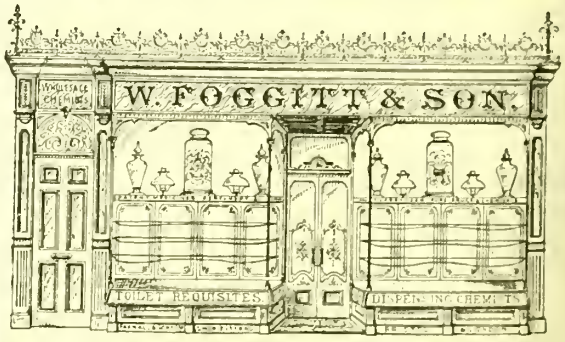

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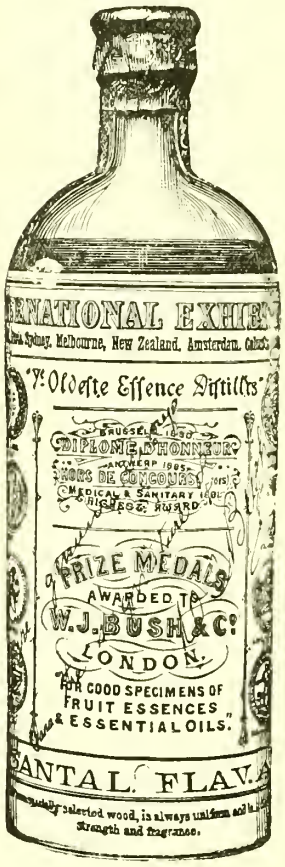

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1. **Six fully equipped and up-to-date Factories** giving a continuously increasing output.

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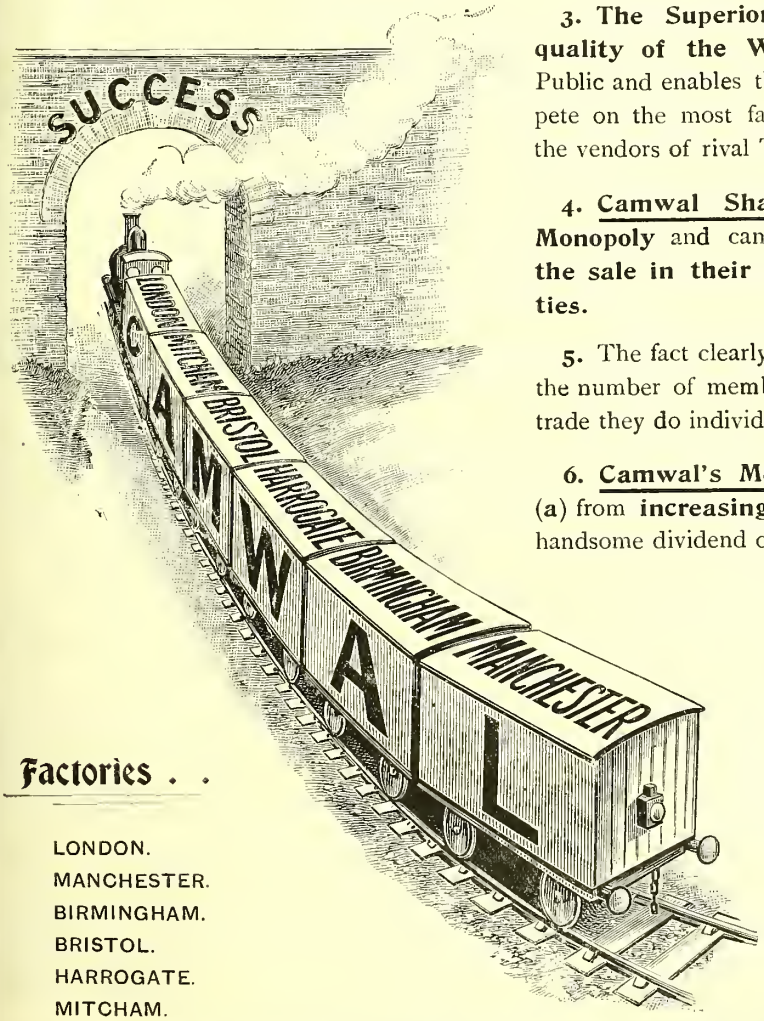

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NO CUTTING OF PRICES PERMITTED.

Retail prices on application.

NET TRADE PRICES for Cash with Order.
* Cases and Bottles (returnable) charged extra as below.

Scale		Per doz. Quarts	Per doz. Pints	Per doz. Nips	Per doz. Syphons	Per gall. in Case of 2 Jars	Per gall. in Case of 4 Jars	In Minimum Quantities of
	London and Suburbs, within radius of Carter, Paterson & Co., who deliver Full Goods and collect Empties free of charge	2/4	1/5	1/3	4/-	7d.	6d.	1 doz. Qts., 2 doz. Pts., doz. Nips, 1 doz. Syphons, 1 Case of 2 1-gall. Jars, 1 Case of 4 1-gall. Jars.
	Places distant from London Not exceeding 30 miles							
A	Over 30 miles " 80 "	2/10	1/11	1/0	4/6	8d.	8d.	3 doz. Qts., 6 doz. Pts., 12 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, or 2 Cases of 4 1-gall. Jars.
B	" 80 " " 130 "	3/1	2/2	1/7	4/6	9d.	9d.	
C	" 130 " " 180 "	3/4	2/2	1/9	4/6	10d.	10d.	6 doz. Qts., 12 doz. Pts. 16 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, 2 Cases of 4 1-gall. Jars.
D	" 180 " " 250 "	3/7	2/2	1/9	4/6	11d.	11d.	
E	" 250 "	3/10	2/5	1/9	4/6	1/1	1/1	
F		4/1	2/8	1/9	4/6	1/3	1/3	

Single dozens 6d. extra.

* Deposit on Cases and Bottles (returnable) charged as follows:—1 doz. Quarts, 3/-; 2 doz. Pints, 4/-; 4 doz. Nips, 7/-; 1 doz. Syphons, 26/-; 3 doz. Quarts, 9/-; 4 doz. Pints, 8/-; 6 doz. Pints, 12/-; Case of 2 1-gall. Jars, 4/6; Case of 4 1-gall. Jars, 9/-. These amounts are refunded when the Empties are returned in good order.

Certain places served by sea are **excepted** from the above rates, such as **Aberdeen, Belfast, Brechin, Cork, Dublin, Dundee, Edinburgh, Forfar, Glasgow, Kildare, Limerick, Londonderry, Montrose, Newbridge, Newcastle-on-Tyne, Perth, St. Andrews, Tipperary, &c.**, which are supplied at Scale E; **Isle of Wight, Jersey, and Guernsey** at Scale B; **Alderney and Sark** at Scale C.

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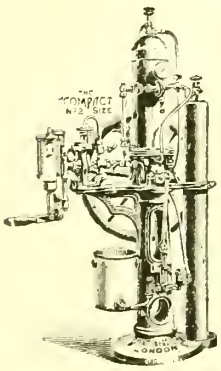
THE "COMPACT" Soda Water Machine.



For use with Compressed Carbonic Acid Gas.

An invaluable Invention for Hotel Keepers, Chemists, &c.

A complete Soda Water Machine on One Stand.

Price, fitted with "Ideal" Turnover Filling Machine producing by hand power 600 dozen, by steam power 1,200 dozen, with Syrup Pump £47
(Without Syrup Pump £2 less.)

Ditto, as above, and also fitted with "Galway" Syphon Filling Machine £50

For other sizes see Catalogue.

The "LONDON MADE" SYPHON.

Best Bohemian Crystal Glass.

Pure Tin Tops.

NO LEAD.

(The usual size.)

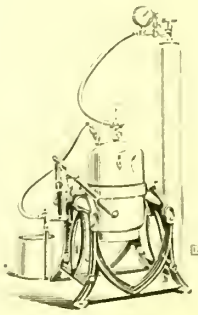
	Per doz.
23 oz. capacity	18/-
35 oz. "	21/-

Prices of other sizes upon application.

Vases engraved from 1/- per doz.

Tops stamped free.

THE "CYLINDER" SODA WATER PLANT.



This is a cheap Apparatus, designed for use with Compressed Carbonic Acid Gas, for serving Soda Water on the counter by means of a silver-plated counter stand.

Prices according to requirements, from £15.

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CARLSBAD VICHY HUNYADI-JANOS

SPRINGS

NAME	Per Dozen Bots.	Per Dozen ½-Bots.	Original Packages Bottles	Original Packages Bottles	Original Packages ½-Bottles	Original Packages ½-Bottles
Abrolis	5/-	4/-	50	18/-	100	27/6
Æsculap	15/-	12/-	25	30/-	50	50/-
Apenta	10/-	8/3	25	20/-	50	32/6
Apollinaris	6/-	5/-	50	23/-	100	36/-
Bourboule (La) ..	11/-	—	50	42/-	—	—
CARLSBAD	12/-	—	50	46/-	—	—
Condal	—	14/-	—	—	50	56/-
Contrexeville ..	9/-	—	50	35/-	—	—
Ems	7/-	—	50	28/-	—	—
Evian	8/6	—	60	40/-	—	—
Fachingen	7/6	—	50	29/-	—	—
Flitwick	19/-	12/-	—	—	—	—
Franz-Josef	12/-	10/-	25	22/6	50	35/-
Friedrichshall	12/6	10/-	25	25/-	50	40/-
Gichtwasser (Wiesbaden)	12/-	—	—	—	—	—
Gerolstein ..	5/-	4/-	50	20/-	50	16/-
HUNYADI-JANOS ..	12/-	10/-	25	22/6	50	35/-
Johannis	5/6	4/-	50	20/-	100	32/-
Kronenquelle ..	9/-	—	50	36/-	—	—

NAME	Per Dozen Bots.	Per Dozen ½-Bots.	Original Packages Bottles	Original Packages Bottles	Original Packages ½-Bottles	Original Packages ½-Bottles
Kronthal (red label) ..	7/-	5/6	50	25/-	100	40/-
" (blue label) ..	6/-	4/6	50	23/-	100	36/-
Levico	—	18/-	—	—	—	—
Oberbrunnen ..	8/6	—	50	35/-	—	—
Pullna	12/-	8/-	40	36/-	40	25/-
Reginaris	5/6	4/6	50	21/-	50	17/-
Roisdorf	5/6	4/6	50	22/-	100	35/-
Rosbach	5/6	4/-	50	20/-	100	32/-
Royat	9/-	—	50	34/-	—	—
Rubinat	15/-	8/-	25	30/-	100	60/-
St. Galmier	6/-	4/6	50	22/-	100	34/-
St. Marco	11/-	—	50	42/-	—	—
Salutaris (not car. paid)	4/-	2/6	—	—	—	—
Selters	6/-	4/6	5 ·	24/-	50	17/-
Taunus	5/-	4/-	50	20/-	100	30/-
Vals	8/6	—	50	33/-	—	—
VICHY (State Springs), "Celestins," "Grande-Grille," &c.	8/6	6/6	50	33/-	50	25/-

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CONCENTRATED WATERS.

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" Anethi, Concent.	4/- "	" Flor. Aurant.	8/6 "	" Pimentæ "	4/- "
" Anisi "	4/- "	" " Sambuci Conc.	8/6 "	" Pulegii "	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosmarini "	4/- "
" Carui "	4/- "	" Menth. Pip. Conc.	4/- "	" Rosæ "	8/6 "
" Cinnam. Ver. Conc.	6/- "	" " Ang. Conc.	8/- "	" " Virgin "	10/6 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.)

Samples of any of the above sent free on application from

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Specially prepared for the Home & Export Trades.

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	Per Gall. s. d.
Imperial Cyder (Specially prepared)	1 9
Apple and Blossom Cyder	1 6
Champagne Cyder	1 4
Sweet Draught	1 8
Medium Draught	1 3
Superior Dry Draught	1 2
Symonia (Non-Alcoholic)	1 0
Sydrina (Non-Alcoholic)	1 0

Casks charged and allowed for if returned within two months, in good condition, to same address as sent from, and advised by post.

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Symonia and Sydrina in ½-pints, Cases of 6 dozen.

Sparkling Wines, 1 dozen Large, or 1 dozen Half-Bottles.

Prices include Bottles, but Cases are charged 1/6 per dozen extra, and allowed for if returned Carriage Paid, in good condition, within one month.

Carriage Paid to any Railway Station in England and Wales.

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Bottles Free, and Carriage Paid.

Per Doz. Bottles	s. d.
Imperial Cyder (Extra Dry). Gold Foil.	10 0
Apple and Blossom Cyder (Sweet or Dry). Silver Foil.	7 6
Champagne Cyder (Medium Dry). Red Label.	6 6
Symonia (Non-Alcoholic) ½-Pts.	8 0
Sydrina (Non-Alcoholic) do.	8 0
Imperial Perry	10 6

2/- extra per Two Dozen Half-Bottles

"ROYAL EXCELSIOR" SPARKLING WINES.

Pale Dry Creaming (Champagne Style).	21 0
Devonshire Chablis	15 0
Devonshire Hock	15 0
Devonshire Moselle (English Rhine Brand).	24 0

3/- extra per Two Dozen Half-Bottles.

Symonia and Sydrina are the best Temperance Drinks of the day, and may be sold by Chemists.

Our Local Bottling Agents can often reduce prices in Bottle by importing in Wood, thus saving the extra Carriage, &c.

Instructions for Storing, &c.

On receipt of the case of Cyder, unpack, and stand the bottles in an upright position in a cool cellar of from 50 to 55 degrees temperature, to settle down, and return empty cases to us; or, if wanted for immediate use, in a temperature of 60 degrees, when it will get into condition, and will come out an effervescing, delicious drink, healthful and invigorating without being heady. If a dry Cyder is required, keep twelve months or more in bottle. *Wines must be laid down.*

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Per Case of	25 large bottles,	22/6	.....	Per dozen,	12/-
,, ,,	50 small ,,	35/-	.....	,, ,,	10/-
,, ,,	25 large ,,	21/-	Per 10-case lots.		
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For net cash.

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COCA WINE.

CALE STREET DISTILLERY
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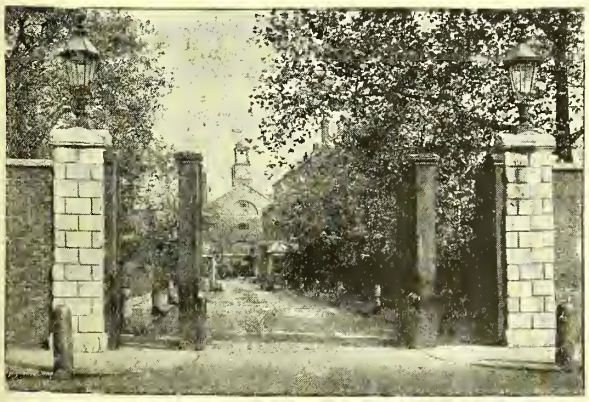

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WINE

(Guaranteed Prepared from Liebig's Extract of Meat).

ORANGE WINE (Vin. Aurantii, B.P.),
COCA WINE, and QUININE WINE.

A Handsomely-printed Brochure will be sent, Post Free, together with Prices and Samples, on application with Trade Card.

BEAUFOY & CO., SOUTH LAMBETH, LONDON, S.W.

TWO ✱ GOOD ✱ LINES.

PROTECTED PROFITS 30 PER CENT.

MINIMUM SELLING PRICE.

HALL'S WINE, PER CASE (1 doz.) ... 27/- ... 3/- Per Bottle.

" " " (2 doz.) ... 31/- ... 1/9 "

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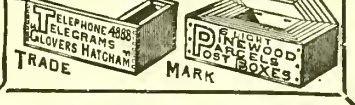

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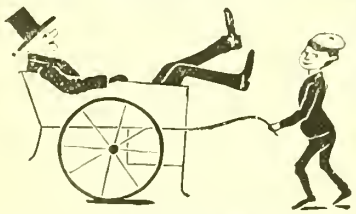

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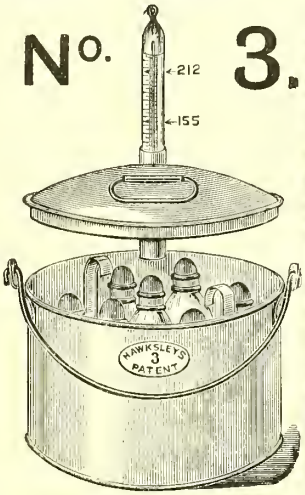

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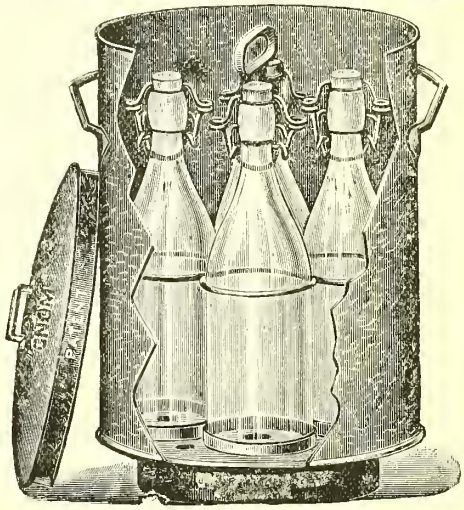

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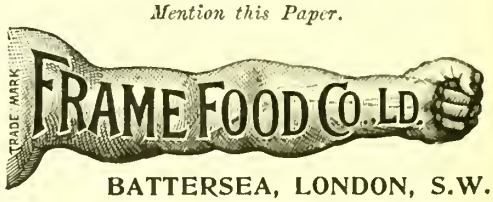

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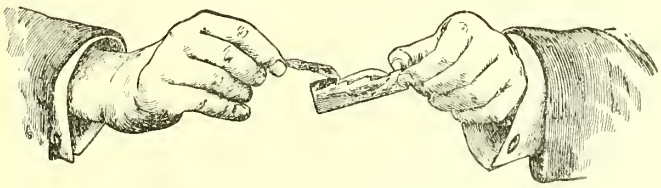

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Central Pharmaceutical Association of N.Z.
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Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia

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Circulars and Price-lists.

HOW TO DISTRIBUTE THEM TO THE DRUG-TRADE.

MANY of the best advertisers in the drug-trade have endorsed our view that it is more effective as well as cheaper to distribute circulars and price-lists stitched up in THE CHEMIST AND DRUGGIST than sending them singly by post. We make such insets in the *C. & D.* notable by the fact that we only receive them twice a year for distribution, and, of course, we ensure that they get into the hands of the right people. Sending them singly by post is more or less (principally "more") a lottery, gives immense office trouble, and costs at least three times more than our charge for inserting them in the *C. & D.* We would advise those who think of the matter to write to our Publisher for particulars about the next distribution—the Summer number, July 29, 1899. He will not only give particulars about the charges, but what artistic assistance he can in designing or arranging insets. The date is two months distant, but near enough for prompt instructions to printers.

Summary.

THE MAN FROM LONDON who sends us notes from New York has several bright ones this week on p. 880.

AN EXHIBITION of articles of commerce has been opened at the Crystal Palace by the Article Club (p. 897).

THE GENERAL MEDICAL COUNCIL is now in session, and we report the first two days' proceedings on p. 880.

AN OINTMENT-MAKER who has a thousand patients a week seems a likely subject for promotion (p. 874).

THE alkali chief-inspector's report for 1898 deals largely with scientific rather than industrial questions (p. 891).

BOVRIL AND BOUILLON FLEET have settled the action which had been carried to the Court of Appeal (p. 885).

THE FORMOSAN CAMPHOR-MONOPOLY is approaching settlement. Some particulars about it will be found on p. 890.

A MEMBER of the Southport chemists' deputation to the parliamentary candidates criticises the tactics of the affair (p. 891).

MR E. MERCK states that Dr. Schaeffer's cocaine-test is unreliable, and he maintains the usefulness of McLagan's (p. 897).

THE CHEMISTS ASSISTANTS' ASSOCIATION has had a bad year (p. 876); but the Notts Association is as prosperous as ever (p. 893).

THE CENTENARY of Messrs. Atkinson's perfumery business occurs this month. We give some particulars about the firm on p. 887.

"THE FLORA OF KENT," by Messrs. Hanbury and Marshall, and Professor Greenish's new book on materia medica are reviewed on p. 894.

THE NOVELTIES described on p. 883 are concentrated claret-cup, a greaseproof pot-cover, a fly-catcher, and the "Torsion" dispensing-balance.

A NEW EDITION of Mr. B. S. Proctor's "Manual of Pharmaceutical Testing" has been published this week. It is brought into line with the 1898 B.P. (p. 890).

AT TWO INQUESTS in Lincolnshire a Coroner has inaccurately laid down the law regarding the labelling of poisons sold by assistants to limited companies (p. 874).

A CORRESPONDENT gives us medical authority for the recommendation of sulphur in the sock in *Diseases and Remedies*, scoffed at by Sir J. Crichton Browne (p. 892).

As a result of the St Helens explosion, a recommendation is made by the Coroner's jury that chlorate of potash should be stored in quantities limited by Government control (p. 875).

MR. W. M. WARREN, the general manager of Messrs. Parke, Davis & Co.'s business, has been interviewed by a *C. & D.* representative. The result, with a portrait of Mr. Warren, are on p. 896.

THE CAPE GOVERNMENT has given way on the question of taxation of limited companies outside the colonies, and the Chamber of Commerce has been asked to report upon the matter (p. 879).

THE MARKETS are quiet this week. Citric acid is dearer, and insect-flowers have suddenly become very scarce and dear. Quinine is firmer, and several essential oils show an upward tendency, especially HGH peppermint (p. 901).

THE UNQUALIFIED DISPENSER is not to be allowed to retire so quietly as the Executive Committee of the General Medical Council desired, the Council having on Wednesday appointed a special committee to report on the subject (p. 888).

THE LORD CHANCELLOR'S BILLS dealing with company pharmacy, medicine, dentistry, and midwifery have been incorporated in a Bill dealing with the whole subject of limited companies, which has been drafted by the Select Committee. We comment upon this change, which will make the proposals applicable to the United Kingdom (p. 838).

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

A Lincolnshire Coroner on the Pharmacy Act.

At an inquest held at Boston on May 22, concerning the death of a labourer named Jackson from laudanum-poisoning, Mr. Charles H. Talbot (of Talbot's Drug-stores) stated that 2 oz. of laudanum was procured by the deceased from his shop, it being supplied by a qualified assistant in his presence. He remarked that the quantity was large, but deceased was a well-known laudanum-drinker. The Coroner (Dr. Clegg): You know the law requires that the name and the address of the seller shall be on the bottle. Mr. Talbot: Yes; but not in the case of a company. You see, this is a company, and I keep a qualified chemist. The Coroner: His name and address ought to be on the bottle. Mr. Talbot: Whose? The Coroner: The name of the seller. He sold it, and his name and address should be on the bottle. Mr. Talbot: Is that required in the case of a company? The Coroner: The name and address of the seller must be on the bottle—that is quite certain. Nobody can sell unless he is on the list of chemists and druggists, and your name is not on the list. Mr Talbot: I did not sell the laudanum. You see, it was supplied by a qualified chemist. The Coroner: Yes, but his name and address are not here. That is what is required. Your name is on the bottle, but you are not on the list of chemists and druggists. Mr. Talbot: No; I know I am not. The Coroner: Therefore his name, as required by law, ought to be on the bottle. Mr. Talbot: Thanks; I did not know that. I have two chemists employed, who are qualified men. Suicide whilst temporarily insane was the verdict.

At the adjourned inquest, held at Spalding on May 25, to inquire into the death of the woman Bell, who is suspected of having been poisoned by her husband, evidence was given by Algernon H. Molson, who said he was a qualified chemist and manager of the branch-shop of Dr. Talbot Herbal Remedies Company (Limited) at Spalding. Edward Bell came to the shop on April 22, and purchased 2 oz. of laudanum, which he said was for toothache and for general use. He then asked for 1 oz. of white mercury to poison rats. Witness asked how he intended using it, and also for his name and address, and if there was anyone in the town he could bring as a reference. Accused said he could not, but gave his master's name, stating that he attended the market every Tuesday. He gave the name of Bell, of Holbeach Hurn, and said he both understood what he was asking for and how to use it. The Coroner (Dr. Clegg): Is not white mercury known by many people as arsenic? Witness: I do not know that. Corrosive sublimate is thought to be, I believe. Witness supplied Bell with 1 oz. of the mercurial. The man next visited his shop on April 24 and asked for another ounce. Witness inquired about that previously supplied, receiving the explanation that eight rats had been killed by it. He supplied the quantity asked for, and then Bell requested something stronger, suggesting arsenic. Witness had none in stock, and recommended strychnine. Bell bought 1 dr., entering his name in the poison-book as before. Two days afterwards the accused man came for poison to kill an injured dog. Witness recommended prussic acid, but refused to sell any, suggesting that the animal be brought to the shop to be poisoned. Bell said he could not do that, and was supplied with another drachm of strychnine. Witness cautioned Bell as to the use of the poison, but he seemed to understand it, and said he kept it quite apart from everything else. The strychnine was supplied in crystals, each packet being wrapped in two papers, distinctly labelled with the name and address of the firm by whom it was sold.

The Coroner: But not with your own name upon the label? Witness: No, only that of the firm. The Coroner: Then there was really no name upon the label at all. The list of qualified chemists does not contain the name of the Talbot Herbal Remedies Company. Witness: We have made that alteration since then. The Coroner: That is right. Then you will not be making any infringement of the law. Witness: I believe it is, however, a disputed question still. In a shop, for instance, where there are many assistants, each one cannot have his name upon the label of every bottle supplied. The name of the Talbot Herbal Remedies Company is registered in the list of limited companies, and carries on business as such. The Coroner: It will be better if in future you have your own name upon the labels, and thus comply with the regulations.

Asked by a juryman if these poisons were the usual kind of herbal remedies his firm supplied, witness said that one of the poisons was not herbal; but the firm were also registered as chemists, druggists, and bonesetters. They did not sell herbal remedies alone. Several of the jury expressed the opinion that witness should have made more inquiries about the purposes for which the poison was required before selling it so freely, and that he had acted most unwisely. Mr. Molson replied that the man on each occasion gave an excellent explanation for his wanting the stuff, and he had no reason whatever for suspecting anything wrong.

Further evidence having been given, the inquiry was again adjourned.

The Ointment-maker.

At Lambeth on May 27 an inquiry was held with reference to the death of Charles Henry Dell, a porter, who died in St. Thomas's Hospital. The widow stated that her husband had suffered with an ulcerated leg for some years. He attended St. Thomas's Hospital until about six months ago, when he consulted a Mrs. Hales, who, witness understood, was a qualified medical practitioner. Mrs. Hales gave him a lotion for the leg and some of her "celebrated heal-all ointment." The wound healed, but deceased was never well afterwards, and was admitted into the hospital on May 24, where he died from lockjaw. The deceased used to pay Mrs. Hales 2*s* 6*d*. for the remedies she supplied.

Ellen Hummerstone said she was the widow of a labourer, and occupied three houses in York Street, Walworth. Her patients called her "Mrs. Hales," which was the name of her mother and grandmother, who practised before her. The Coroner (Mr W. Schroeder): Have you a diploma? Witness: No; but I should like one. (Laughter.)

The Coroner: What do you call yourself? Witness: Well, an ointment-maker. I have brought you a pot of my ointment, if you will accept it. The Coroner: Thank you, but I prefer leaving myself in the hands of medical men.

Replying to further questions, the witness said that she attended about a thousand patients a week. She never told them she was not qualified, but when they had been once they always came again. The Coroner: I see you profess to cure cuts, wounds, bruises, burns, scalds, ulcers, varicose veins, bronchitis, whooping-cough, croup, and a great many other things. Do you treat cases of fever? Witness: No; I draw the line at fevers.

Continuing, she said people came hundreds of miles to see her. She did not remember the deceased coming to her at all. The Coroner: Do you make your remedies yourself? Witness: Yes. The Coroner: How many assistants do you keep? You have an enormous business. Witness: My daughters assist me. The Coroner: Do you inquire into the cause of the wounds? Witness: Yes; and I sometimes send people to a doctor. The Coroner: How do you know that you are treating them properly? Witness: They would not come again, would they? The Coroner: People do very foolish things sometimes. The doctor in this case says the death of the deceased was not in any way accelerated by the ulcerated leg being closed up, otherwise the matter would have had to be further inquired into.

A verdict of accidental death was returned.

A Lift-fatality.

On May 25 an inquest was held at Marylebone concerning the death of Caleb Wickham, a carman, who was killed by falling down a lift at the premises of Messrs. Schweppes (Limited), mineral-water manufacturers, of Berners Street, W. Evidence showed that deceased, in spite of the notice warning persons to keep clear of the lift, must have approached too near the open lift-hole and fallen into the basement. The jury returned a verdict of accidental death.

Charge of Stealing.

At Bow Street on May 25, Thomas Carrick (16) was charged with breaking and entering the shop of Henry Lamplough (Limited), chemists, 167 Strand, W.C., with intent to steal. When the prosecutors' shop was opened on the previous morning it was found that an attempt had been made to enter the premises by a window at the rear. Inquiries led to the arrest of the prisoner, who had been employed at the shop as errand-boy for about six months. Prisoner admitted his guilt to the officer, saying he had got no money, and intended stealing something from the cash-box, but was disturbed, and had to come away empty-handed. Mr. Varnam, the manager of the business, said he paid the prisoner 10*s.* a week, and intended to give him a rise. Sir John Bridge: What sort of character did you have with him? Mr. Varnam: To tell you the truth, I had no character at all. I had boys with good characters who turned out very badly, so I thought I would experiment with a boy with no character at all. This is the result. (Laughter.) The prisoner was committed for trial.

A New Dodge.

A capture of supposed travelling thieves was effected by the police at Poole on May 29, three of a gang being arrested. The method of the gang was to visit chemists shops, and whilst one was being examined privately in the back shop for a supposed ailment, another would enter and make off with the till At Parkstone, near Bournemouth, the trick was unsuccessful, as the assistant, hearing a noise, went into the shop and caught the thief at the front door with the cash-box, containing 20*l.* The man who was undergoing examination promised to return for his medicine, but as he did not do so the chemist's suspicions were aroused, and he informed the police. The latter traced the men to Wimborne, eight miles away, whither they had walked. Two of them were captured just as they had taken their seats in the train going to Southampton. One of them has been identified for an offence at Southampton.

The St. Helens Explosion.

An inquiry was opened on May 25 at St. Helens, before Colonel Ford, Government Inspector of Explosives, and Dr. Dupré, analytical chemist to the Home Office, into the cause of the explosion at the Kurtz works of the United Alkali Company on May 12 The first witness called was a cooper named William Bate, who said that when the fire broke out he was unloading a waggon opposite the door of the crystallising department of the chlorate-works. He was receiving casks from the driver and putting them on the floor. He put two casks on their sides, and then took another one down and rested it with one end on the casks and the other on the floor. The weight of this cask caused the two others to roll forward and rub against one another. As they did so a spark flew out and fell on the ground. A large flame shot out and ran alongside the tanks. Evidence was given by several other witnesses, including Dr. Best, chemist and manager of the Hardshaw Brook Works, the manager of the Corporation gasworks, and the manager of the Kurtz works, but at the conclusion Colonel Ford remarked that no real evidence as to the generation of the spark had been forthcoming. He would be glad if other persons who knew anything about it would offer evidence. As nobody accepted the invitation the inquiry closed. Colonel Ford and other gentlemen afterwards proceeded to the works to experiment privately with the chlorate.

The inquest on the five men killed by the explosion was resumed on May 30. It was attended by two of the directors of the United Alkali Company, three of her Majesty's inspectors of factories, Colonel Ford (inspector of explosives), and the relatives of the deceased men were also legally represented. William Bate, a cooper, repeated the evidence he gave before Colonel Ford the previous day as to the generation of a spark by friction between casks of chlorate, which set one of the coolers in flames. He remembered a fire at the store on a previous occasion, but there was no explosion. Mr. Rudge, manager of the Kurtz works, explained that the previous fire was caused by a spark sent out by a boy chipping staves. No explosion had previously happened, and he had never regarded chlorate by itself as explosive. The cooling-tanks contained a solution of chlorate of potash in water, each tank holding about 6 cwt. of chlorate. The wall between the crystallising-rooms and the store-room was of brick. If a lighted match were dropped into 1 cwt. of chlorate nothing would happen, practically speaking, but wood saturated with chlorate would burn rapidly when ignited. Asked why so much chlorate was stored near drying, milling, and cooling rooms, witness replied that it had hitherto been considered free from explosive effects. In his opinion, the explosion was brought about by the mixture of gases, caused by the high temperature. Further evidence having been tendered, Colonel Ford (inspector of explosives) and Mr. Richmond (factory inspector) expressed the opinion that chlorate should be stored some distance from manufacturing-plant. After forty minutes' deliberation, the jury returned a verdict of accidental death, and suggested that buildings for chlorate-plant should be fireproof, that the cooling-tanks should be of iron instead of wood, and that chlorate should be stored in quantities limited by Government control.

Chemist Not to Blame.

At an inquest held at Kensington on May 27, with reference to the death of Edward Algernon John Wright, aged 17 months, the mother said the child had whooping-cough, and she went to a chemist, who sold her some cough-stuff and advised her to get a doctor if the child got worse. A day or two afterwards the child had a convulsion and died before the doctor could be called. Charles Edward Farmer, chemist, 68 High Street, said he gave a harmless mixture, telling the mother to call in a doctor if it did no good. Dr. Griffiths said death was due to spasm of the glottis from convulsions and whooping-cough. He did not think there was anything wrong in the mixture the chemist had given. The Coroner (Mr. Drew) said the only thing was that it sometimes delayed the calling in of a doctor.

Laudanum from Ten Chemists.

At an inquest held at Hammersmith on May 29, on an actor named La Farque, who committed suicide by laudanum-poisoning, the evidence showed that the deceased had been betting, and was worried on account of his wife having left him. John Robert Evans, manager to Mr. Feltwell, chemist, Blythe Road, said that on the day before the death he sold the deceased 2 dr. of laudanum for toothache. Soon after, the evidence showed, the deceased went to the shop of Mr. W. Brown Nelson, of 4 Maclise Road, and purchased a similar quantity on the pretence that he had earache. The Coroner's officer found ten small bottles on the table, nine of which were empty, all having contained laudanum. They had been obtained from Messrs. W. R. Howard, 4 Napier Road, Kensington; J. B. Barnes, 1 Trevior Terrace, Prince's Gate; Decastro, Watson & Richards, of Wilton Place, Belgrave Square; Kingsford & Co., 54 Piccadilly; A. Oldcorn, 1 Piccadilly Circus; Frizell & Co., Cranbourne Street, Leicester Square; and Nurtben & Co., 390 Strand. There was also a bottle of camphorated chloroform, unopened, which had been purchased from a chemist at 45 High Street, Kensington. Deceased must have walked from Hammersmith to the Strand, buying laudanum at each shop he came to. The Coroner remarked that in that case a man could purchase a bucketful of such a drug. A verdict of suicide whilst temporarily insane was returned.

Coroner and Poison-bottles.

At an inquest held at Kensal Road on the body of a woman who had been poisoned by drinking spirit of salt in mistake for whisky, the Coroner (Mr Luxmoore Drew) commented on the unrestricted sale of such deadly poisons. He could not, however, understand anybody mistaking such a strong fuming acid for whisky. At present the law was such that any oilman or grocer could sell this poison, and the husband in his evidence had said that he purchased it from his employer, a furniture-dealer. He hoped the time was not far distant when the Legislature would step in and put such restrictions on the sale of all poisons as would make it compulsory for them to be kept in such distinct bottles that the chances of an accident would be reduced to a minimum. The jury agreed with this, and returned a verdict of death from misadventure.

Royal Institution of Great Britain.

The arrangements for the centenary celebrations next week are as follows:—Monday, June 5—Centenary day (The first meeting of the members was held in the building in Albemarle Street on June 5, 1799) General monthly meeting, 5 o'clock. Tuesday, June 6—Commemoration lecture, by Professor Lord Rayleigh, F.R.S., 3 o'clock. H.R.H. the Prince of Wales, K.G., Vice-Patron, presiding. Evening reception by the Lord Mayor to the members, foreign guests, and representative men, at the Mansion House. Wednesday, June 7—Commemoration lecture, by Professor Dewar, F.R.S., 9 o'clock, his Grace the Duke of Northumberland, K.G., President, presiding.

Chemists' Assistants' Association.

The annual general meeting was held at 73 Newman Street, W., on May 25. The Council reported that twenty-two new members had been elected during the session, but many old members had resigned. The patrons number at present forty-eight. No entries had been received for the Association's prizes and medals for essay or for practical work. The financial condition of the Association was sound as set forth in the financial report and balance-sheet, which will shortly be available for publication. The President (Mr. F. W. Gamble) felt it his duty to call attention to the very poor attendances there had been at the scientific meetings, which, he remarked, were above the average in interest. He expressed the wish that next year the attendance would improve. The meeting then appointed Messrs. James and Meynell scrutineers of the thirty-six voting-papers received, and the result of the voting was as follows:—

Mr. Gamble	36	Mr. Pearson	30
„ Morley	36	„ Robins	30
„ Strother	35	„ Lescher	29
„ Taylor	35	„ Lumley	25
„ Hymans	34	„ Barlow	25
„ Fothergill	33	„ Evans	25
„ Latreille	33	„ Moore	25

These form the Council. The unsuccessful candidates were Mr. Fullerton (24 votes) and Mr. Curry (22 votes). With thanks one of the poorest sessions in the Association's history came to a close.

The "Lombards."

The tenth annual dinner of this Society was held on May 26 at the Restaurant Frascati, Oxford Street, W., Mr. Cornelius Hanbury presiding. About fifty guests sat down to dinner, amongst whom were Messrs. F. J. Hanbury, Alfred Hanbury, Reginald Hanbury, Capel Hanbury, W. R. Dodd, F. C. Moss-Millar, A. H. Solomon, W. J. Petty, P. O. Faithfull, L. Salter, and F. W. Gamble. After a well-served and varied menu had been despoiled, and "The Queen," through the medium of Mr. Cleuyg Jones, had been loyally toasted, "The Firm" was proposed by Mr. H. Jenkins and "The Chairman" by Mr. T. W. Tullett. In respouse to the dual toasts, Mr. Cornelius Hanbury congratulated the "Lombards" on their tenth birthday, and wished them many happy returns. A musical programme was rendered by Messrs. R. Bellew, Theo. Swinburne, Herbert Brown, A. E. Bradbury, J. Netherway, and a highly enjoyable evening terminated with 'Auld Lang Syne."

The Food and Drugs Bill.

Dr. Frank L. Teed, public analyst for Islington, has presented a lengthy report to the Public Health Committee of the Vestry on the proposals of the Sale of Food and Drugs Bill now before Parliament, and the committee have agreed to lay before the Local Government Board his suggestions for the amendment of the Bill—viz., that a court of reference be constituted; that means should be provided for prosecuting the giver of a false warranty; that other articles besides milk should be sampled in transit; and that the definition of "food" should be extended so as to include substances, like baking-powder, which at present are not "food," though included in its preparation. Dr. Teed considers it undesirable that the authority that decides on questions of analytical data (a court of appeal from the analyst) should also be the authority for deciding in what form the analyst whose work they may have to review should state his results. In the event of the court of reference being constituted, he considers the Board of Agriculture the proper authority for drawing up the form of certificate.

Coroner and the Sale of Carbolic Acid.

On May 30 the Liverpool City Coroner, Mr. T. E. Sampson, held an inquest on the death of a man who had committed suicide by drinking carbolic acid. The Coroner remarked that time went on, and yet no restriction was placed upon the sale of carbolic acid. It was a very useful but a very dangerous article. He did not know what steps could be taken, but it seemed a pity that that drug could be purchased so easily. It was used very frequently by people who wished to take their own lives.

The Spectacle-makers' Company.

There are 150 candidates for the diploma of the Spectacle-makers' Company whose names are entered for the examination which is to take place next week. In consequence of the large number of candidates the examinations at the Northampton Institute will extend over five days instead of three as originally intended. Of the candidates who have entered their names twenty-three are chemists.

Proposed Optical Society.

A meeting is to be held at the Salisbury Hotel, Salisbury Square, E.C., on June 5, at 8 P.M., to consider the proposal to form an optical society. The objects of the society are to be the advancement of the science of optics and the promotion of good fellowship amongst opticians. Mr. W. H. E. Thornthwaite, Master of the Spectacle-makers' Company, is to preside.

Killed by a Pistol-shot.

An inquest was held at Beckenham, on May 27, on the body of Mrs. Amy M. Louise Bishop, wife of a London manufacturing chemist, who was found shot dead in her bedroom. The husband said when he left home in the morning his wife came to the door to see him off, and seemed very cheerful. He did not know that she had any enemies, and he had never heard her threaten to commit suicide. The jury found that she died suddenly from a pistol-shot wound in her left breast, but how the pistol was discharged there was no evidence to show.

Belladonna for Whisky.

An inquest held at Leicester on May 27 on the body of a woman named Spencer disclosed the fact that deceased, who was of intemperate habits, drank a quantity of belladonna-liniment in mistake for whisky. Death by misadventure was the verdict.

The Dangers of Arrowroot.

At an inquest held at Leicester on May 26 on the body of a four months' old child named Langton, the mother stated that the child had been fed on arrowroot since its birth. She added that she had had five children, and only one was living. The Coroner remarked, "No wonder, if you feed them on arrowroot." Dr. Dickson said that arrowroot given to a child four months old would be quite sufficient to cause death. Death was due to convulsions consequent on improper feeding.

Tried Laudanum.

On May 25 a porter named Constable, employed by Messrs. Stonham & Co., chemists and druggists, Maidstone, was found lying in a room above the shop in a stupefied condition, with a partly-emptied laudanum-bottle by his side. An emetic was administered, and Constable was removed to the hospital, where he is recovering. The man was subsequently charged at Maidstone Police Court with attempting to commit suicide. Evidence was given by Albert Ambrose Gillett, assistant to Messrs. Stonham, who found the empty bottle and promptly administered an emetic, probably saving the man's life; and by a police-constable and doctor. Defendant expressed contrition, stating that he had some trouble on his mind which led him to commit the rash act, and he was discharged on his wife promising to look after him.

Early-closing.

The chemists of Fareham have decided to close their pharmacies every Thursday at 4 o'clock.

Cricket

Malden C.C. *v.* Johnsen & Jörgensen C.C.—Played on May 27. Scores: Johnsen & Jörgensen, 65; Malden, 49. For the winners J. Hoskins scored 20 (not out) and J. R. George 12, while for the losers Faricy scored 15.

Davy Hill's C.C. *v.* Hewlett's C.C. (Leagne match).—Played at West Green May 27. Scores: Davy Hill's, 40; Hewlett's, 2 and 8. Played on a bad wicket; D.H.C.C. winning by an innings and 30 runs. For winners C. Parker captured 5 wickets for 1 rnn, E. Sibley 9 wickets for 4 runs, and T. Sibley 3 wickets for 4 rnns. For losers Page fielded well.

The Abortion-charge.

The man John Aureus Burt dentist, and also described as a chemist, although his name is not on the register, who is charged with performing an operation on a young woman at Wellington Quay with intent to procure abortion, has been committed for trial, bail being refused. At the last hearing of the case, at the Teignmouth Petty Sessional Court on March 16, the charge against his alleged accomplice, a plumber named Reed, was withdrawn in order that Reed might give evidence against Burt.

Fire.

Fire broke out on May 30 on the premises of Messrs. Raybould, Whitehonse & Co., mannfacturing chemists, Dudley, by which damage to the extent of about 1,400*l.* was done. It originated in the warehouse, where some thirty hands, principally girls, were employed in making-np, bottling, and packing varions preparations. Everyone was got safely off the premises, and the fire-brigade, after some three honrs' work, succeeded in getting the fire under; but by that time the bailding was rendered practically useless.

Irish News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

The Society's Circular.

At a meeting last week of the Monaghan County Council a letter was received from the Pharmaceutical Society of Ireland relative to company-pharmacy, asking the Council to pass a resolntion on the lines indicated in the circnlar enclosed. The communication was marked "read," Dr. Tierney remarking that most of these people were practising as doctors, and not as chemists at all.

Business Changes.

Mr. J. B. Bolger, L.P.S.I., late of Graham's Medical Hall, Dublin, has opened a pharmacy at Maryborough.

Messrs. Hayes, Conyngham & Robinson (Limited), Dublin, are abont to open an additional branch of their concern in Henry Street, North City.

Messrs. Hugh Moore & Co. (Limited), wholesale drnggists Dublin, are about to acquire new premises at Ringsend for the storage of oils in bnlk. They hope to get gronnd at the north side of the Alexandra Basin.

Personal.

Sir Henry Cochrane, D.L., managing director of the firm of Thacker & Hoffe (Limited), wholesale chemists and druggists, Dublin, was last week elected President of the United Kingdom Commercial Travellers' Association. Sir Henry, in accepting office, said he had personal experience as an "ambassador of commerce," having been a bagman in his early days. He knew of no occupation which tried a man more, or in which he required more patience, tact, perseverance, and the facnlty of never knowing when he was defeated than that of a commercial traveller.

The Disputed Account.

The Athy Board of Guardians have received from the solicitors of Messrs. Clarke & Co. (Limited), chemists and druggists, Belfast, an application for payment of the sum of 13*l.* 13*s.* 6*d.*, the balance due for goods snpplied to the Union. The amonnt is made up of dednctions from the periodical payments, which Messrs. Clarke state are entirely without warrant. To avoid litigation the Guardians are asked to pay the account forthwith. The Chairman thought the application ill-timed, and saw no reason for giving in to it. When deductions were properly made they were not liable to Messrs. Clarke, who were bonnd by their contract to snpply at wholesale prices all medicines ontside the contract. The medicines on which the dednctions were made were ontside those contracted for. It was decided to refuse payment and await developments.

Wholesalers' Liability.

At the Londonderry Quarter Sessions last week, Messrs. Maxwell, Greer & Co., wholesale chemists and drnggists, Derry, were sued by Mr. J. McElwer to recover damages sustained by him by reason of defendants selling him a barrel of adulterated linseed oil for pure oil. The case had been heard at the previous sitting of the Court, but was adjonrned pending an analysis of the oil. An analysis handed in by Professor Leebody stated that the samples of oil submitted to him were adulterated with 25 per cent. of mineral oil. His Honour said the adulteration was not the fault of the defendants, as it was proved that they had bonght the oil from a Liverpool firm as pnre linseed, and sold it to the plaintiff as snch. Plaintiff's counsel said the defendants could sue the firm from whom the oil was bonght for damages. The Registrar having assessed the damages at 30*l.*, a decree for that amount was given, together with 5*l.* witnesses' expenses.

A Tender-question.

The Local Government Board have enclosed for the remarks of the Monntmellick Poor-law Gnardians a letter forwarded to the Board by Mr. W. H. Cobbe, one of the Guardians, with reference to the medicine-contract. Mr. Cobbe says that four tenders were received offering discount from 20 to 43 per cent. off the regulation price-list; one of the tenders at 25 per cent. off was from the former contractor, against whom no fault was to be found. Another tender, also at 25-per-cent. reduction, was accepted. He wants to know why the lowest tender should not be accepted. It was from a contractor who in former years gave satisfaction, and the difference which the ratepayers had to pay was the very considerable snm of 18 per cent.; and failing the acceptance of the lowest tender, why should the Guardians be allowed to depart from the usual practice—when there were two contractors tendering at the same price—of giving the contract to the contractor for the previons year? The Chairman said that three tenders were put to the vote and one was selected. That was all the answer they could make. There was no nse for the Guardians at all if they could not take what tender they pleased. He admitted that no fault was to be fonnd with the previons contractors (Messrs. Leslie & Co., of Dublin), who had given satisfaction generally.

Scotch News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Taking Tr. Digitalis ℥j.

At Glasgow, on May 25, a woman named Leith attempted to commit suicide by swallowing 1 oz. of tincture of digitalis, which her husband had been taking nnder medical advice. The woman was conveyed to the Victoria Infirmary.

Students' Ramble.

The students of the Glasgow and West of Scotland School of Pharmacy (Mr. Barrie, principal) went on their fourth

botanical ramble of the season to Clydeside, on May 27. After climbing hill and dale, and collecting over thirty different flowering-plants, the party arrived at Mauldslie Castle, and were shown through the gardens by Mr. Gorrie.

Chemical-works Explosion.

A fatal explosion occurred, on May 25, at the works of the Cassel Gold - extracting Company (Limited), Ruchill Road, Glasgow. It is not quite clear how the explosion took place, but it is stated to have been caused by the bursting of a retort which was used in the production of potassium cyanide. A dozen men were working in the neighbourhood of the retort at the time; two were killed, the others escaped uninjured.

Fire.

On May 23 fire broke out in an outhouse at the rear of the premises of Mr. John Elliott, chemist and druggist, Berwick-on-Tweed, in which was stored a quantity of tallow, empty boxes, and other material. The roof and upper part of the building were constructed of wood and were in close proximity to a store where paraffin oil was kept. The oil casks were at once removed, however, and the flames were confined to a small area, and ultimately subdued before much damage was done.

Edinburgh Pharmacy Athletic Club.

The eighth annual sports of this Club were decided on May 24. The following were the results of the events confined to those engaged in pharmacy:—Half-mile Flat-race Handicap: 1. J. Walker (10 yards); 2. R. Scott (scratch). Three Hundred Yards Flat-race, confined to Apprentices: 1. W. Butters (20 yards); 2. R. Wilson (scratch); 3 J. B. Mitchell (10 yards). Two Hundred and Twenty Yards Flat-race: 1. R. G. Murray (5 yards); 2. J. D. Ross (30 yards). One Mile Bicycle-race: 1. W. Arres (15 yards); 2. D. S. Napier (scratch). Mr. George Coull, Hon. President of the Club, presided at the presentation of prizes, which were handed to the successful competitors by Mrs. Coull

Forfarshire and District Chemists' Association.

A meeting of the members of this Association was held at Kirriemuir on May 24. The Dundee party were joined at Forfar by the district members, who were accompanied by Mr. W. L. Currie (Glasgow). Arrived at Kirriemuir the party, by invitation of Mr. Ford, went for an enjoyable two hours' drive through the district, outwards by Cortachy Castle, and homewards by Burnside On returning to town the annual business meeting was held, Mr. Charles Kerr (Dundee) presiding. The business was mostly routine, as there appeared to be nothing serious at present agitating the minds of the local pharmacists. The Chairman made a statement showing that a fair amount of work had been done during the past session, and with satisfactory results. He referred to the Beecham controversy, saying that Mr. Beecham had not yet acknowledged their letter, but he (the Chairman) understood that a revised version of the pamphlet was to be issued, so he thought they might take credit to themselves for bringing Mr. Beecham to his right mind in the matter. The Lord Chancellor's Bill was also alluded to, a letter against it having been sent to Lord Camperdown. Mr. Currie remarked, with reference to the Beecham question, that a good many chemists in Glasgow had adopted the practice of removing the obnoxious pamphlets from the box before selling the pills. Messrs. C. Kerr, W Doig, and W. Cummings were re-elected President Vice-President, and Secretary respectively, and Mr. McFarlane (Forfar) and Mr. Nasmyth (Arbroath) were appointed in place of Messrs. Fowler and Jack on the committee.

The members then dined together, Mr. Kerr presiding, at the request of Mr. Ford, who occupied the position of croupier. After a good dinner and a few speeches Mr. Buchanan, the chemist-postmaster of Kirriemuir, conducted the visitors over the town, the celebrated "Window in Thrums" being an object of especial interest.

Agitated Poet: "I want a rhyme for turmoil." Friendly Chemist: "Try sperm oil."

French News.

(From our Paris Correspondent.)

The Late Mr. Swann's Pharmacy.—We have received a letter from M. Al Borney in reference to the sale of this pharmacy in Paris, which our French correspondent mentioned last week. M. Borney states that the information we gave last week was in several respects erroneous. We are not yet quite clear as to the facts, and are only anxious to state them correctly. We shall endeavour to do this next week.

The Chemical Society of Paris is endeavouring to organise an International Congress of Chemists, to be held in connection with the Paris 1900 Exhibition.

First Aid at the Paris 1900 Exhibition.—I understand that a suggestion has been made for each of the leading countries participating in the Paris 1900 Exhibition to have a small ambulance-department fitted up in charge of a doctor and a nurse. These would serve the double purpose of giving "first aid" to the natives of each country visiting or occupied in the Exhibition by a staff speaking their own language, and of serving as an interesting though small exhibit of hospital methods, drugs, and surgical apparatus.

French Assistants.—La Société de la Prévoyance Pharmaceutique des Elèves en Pharmacie de France held a meeting last Saturday evening at the Café du Globe, 8 Boulevard de Strasbourg, Paris. The principal object of the assembly was to consider the advisability of forming a superannuation fund (*caisse de retraite*). A report on the subject was read by M. Saforcada, and a committee was named for the purpose of establishing the fund. The speakers appealed to the young pharmacists, as an intellectual *élite*, to walk resolutely in the path of providing for the future."

Paris Journals.—*La Publicité Médicale et Pharmaceutique* is the name of a weekly publication that has just made its appearance here. It appeals principally to doctors. The subscription-price is 10f. a year, and as a special feature the Editor promises to send gratuitously to each subscriber every week any article of which the name has been published in the journal. At first blush this looks like a munificent offer, but is evidently only a thinly-veiled way of getting doctors to apply for samples of patent medicines as a more economical and productive way than sending them out broadcast.

The Old House of Rigaud in the rue Vivienne (formerly the Maison Grimault), manufacturers of pharmaceutical products and of perfumery, has been to some extent reorganised consequent on the death of Mr. J. B. F. Rigaud. The pharmaceutical part of the business, latterly carried on under the style of Rigaud & Clermont, will henceforth be conducted under the title of "Vial" and M. Vial, first-class pharmacien, will continue to superintend the manufacture both of pharmaceutical preparations and of perfumery at Neuilly-sur-Seine. The perfumery business known as Rigaud & Cie. will now be entitled V. Rigaud, and the commercial direction of both will be in the hands of M. Croissant, who, in conjunction with M. Armet de Lisle, son-in-law of the late M. Rigaud, holds a power of attorney for the firm.

Anglo-French Pharmacists.—At the present time there are four, and possibly five, Englishmen connected with pharmacy in Paris who are endeavouring to obtain the diploma of pharmacien. I understand that all these gentlemen have their English qualification, and several of them to my knowledge have many years' practical experience of pharmacy in Paris, which means, amongst other things, a thorough knowledge of the somewhat intricate dispensing of prescriptions for the cosmopolitan visitors who frequent the large hotels in the centre of the city, amongst whom English and Americans largely predominate. It is a pleasure therefore, to be able to state the gratifying fact that both the French Government and the Director of the Paris School of Pharmacy have appreciated these facts and also the broader view, which means that any facility given to

foreigners visiting Paris, especially in matters relating to their health, is an additional attraction to the city, and an advantage to the population at large. The Englishmen in question have all received the "dispense" for preliminary studies in France, and have consequently only to pass the final examinations. I may add that this privilege has not been obtained without some difficulty, and the fact is worthy of note, as owing to the law passed last year, obtaining the French diploma will be a particularly difficult matter for English pharmacists in the future.

Colonial and Foreign News.

SPIRITS TO THE NIGER COAST.—The Board of Trade have received information from the Colonial Office to the effect that the duty on spirits imported into the Niger Coast Protectorate will, on and after June 17 next, be raised from 2*s.* to 3*s.* per gallon.

UNITED STATES PHARMACOPŒIA.—Professor H. C. Wood President of the National Convention for the revision of the U.S. Pharmacopœia, has notified that the Convention will meet in Washington on the first Wednesday in May, 1900.

THE DUTCH PHARMACOPŒIA COMMISSION has resolved to prepare a project for a new edition of the Pharmacopœia, and in this connection is debating whether or not it is desirable to issue a supplement to the present edition.

BUSINESS CHANGES.—Messrs. Paterson, Simons & Co., well-known drug-exporters, of Singapore, announce that they have taken into partnership Mr W H. Shelford and Mr. Graham Paterson.—Mr. J. Bliss, who began business as a wholesale and retail chemist in Karachi about two years ago, has opened a branch in Quetta.

A PHARMACEUTICAL CHANGE has occurred in Jamaica. At the meeting of the Legislative Council at Kingstown, Jamaica, on April 12, questions were put to the medical officer in regard to the resignation of Mr. C. D. Moffatt, medical storekeeper, and, in reply, Dr. Mosse stated that the Government paid Mr. Moffatt 25*l.* for his passage, but on resigning the position Mr. Moffatt refunded 15*l.* Another gentleman from England succeeded to the position on March 10.

PHARMACY IN SWEDEN. — A memorial, signed by 250 qualified pharmacists in Sweden, has been presented to the Prince Regent, praying him to change the 255 branch pharmacies in the country into head establishments. The pharmacy law of Sweden is on the monopoly principle, the privilege of owning pharmacies being granted to individuals, who also own the branch shops. The consequence is that a large number of qualified men who are able and willing to start in business on their own account are, owing to the concessions, unable to do so until they are between forty and fifty. The memorialists had also an interview with the head of the Medical Department, but he was not encouraging.

THE TABLOID TROUBLE IN GERMANY.—Dr. B. Walter writes to the *Pharmaceutische Zeitung* replying to a note on this subject in THE CHEMIST AND DRUGGIST. He states that—(1) Tabloids are not a necessary form of medicine; (2) according to the opinion of many important doctors compressed medicines which dissolve first in the stomach are not always to be recommended; (3) mistakes can easily be made by patients with tabloids, as they are not always delivered in their original packing; (4) tabloids play into the hands of the public to doctor themselves; (5) they are certainly practical for sensible people to take while travelling, or in countries where there are no good chemists; and (6) German apothekers must be decidedly grateful to the authorities for placing a barrier in the way of Englishmen obtaining the monopoly of a part of the medicine-consumption in Germany for themselves, which would be their ultimate aim. Fashion rules not only women but also doctors. Tabloids of migrainine and antitussin, which are to-day in fashion, will in a few months be replaced by others. [It seems pitiful to add that the German Minister of War has introduced tabloids into the military hospitals.]

South African News.

(*From our Correspondents.*)

INCENDIARIES.—Two attempts were made to set fire to Messrs. Lennon's (Limited) drug-store on May 1, but they failed, some rubbish in the back premises only being destroyed.

TRANSVAAL CUSTOMS.—The annual report of the Inspector-General of Customs of the South African Republic for 1898 shows that the imports amounted to 10 632,895*l.*, which yielded a revenue of 1,058,224*l.* In 1893 the imports were just about half, but in 1896 the high-water mark (14,088,130*l.*) was reached.

"DR." TATE'S CASE.—At the Wynberg Police Court on May 6, Henry Tate, the American coloured man who was charged with contravening the Medical and Pharmacy Act by having practised as a medical man and dispensed medicines without a licence, pleaded guilty, and was fined 50*l.*, or twelve months' hard labour in default. Prisoner has appealed, because the penalty is too high in his opinion.

A CANDLE MONOPOLY IN THE TRANSVAAL has been granted to Mr. H. A. P. Burmester, who has entered into a contract with the Government for the erection of a candle-factory. The Johannesburg Chamber of Commerce has petitioned the Volksraad against the concession to Mr. Burmester, and points out that the import of candles in 1898 amounted to 360 000 boxes of 25 lbs each. The provisions of the contract stipulate for a protective import-duty of 1*d.* per lb. when the factory produces 6,000 boxes per month, or one-fifth of the annual import, so that consumers would have to pay duty on four-fifths of the quantity used. When the production reaches 24,000 boxes per month this protective import-duty will be raised to 2*d.* per lb., which will mean an extra tax of 75,000*l.* per annum.

THE CAPE BOTTLE EXCHANGE ASSOCIATION was formed to protect soda-water makers against injury through the use of one maker's bottles by other makers. Good has come out of it generally without legal proceedings, but last month Messrs. Daly & Day, of Cape Town, had to apply to the Court for an order restraining Alfred Giesler from using bottles bearing their names and marks. In the course of the evidence it was stated that the Association had purchased from the defendant five dozen small soda-water bottles and one dozen lemonade-bottles. Of these seventy-two bottles twenty-two bore the marks of other firms. Defendant expressed his willingness to exchange his bottles for plain bottles if the applicants would allow him three months to work off his present stock. The Court granted an interdict, with costs, but suspended its operation till June 1.

CAPE STAMP AND LICENCES ACT.—We have previously called attention to the operations of this Act, and have mentioned the fact that the Treasury proposed to prosecute the representatives of A. J. White (Limited) because they refused to pay tax on the whole of the paid-up capital of the company. The Government have now seen the inadvisability of proceeding hastily, trade opinion being strongly against them, and have referred the whole matter to the Chamber of Commerce, which is now drafting suitable amendments. The principal proposals which are to be submitted to the Hon. J. K. Merriman, Treasurer-General, are as follows:—

(*a*) The abolition of the company licence payable by foreign companies trading in Cape Colony and the maintenance of the present foreign agents' licence.

(*b*) The abolition of the company licence payable by all commercial companies and the raising of the importers' licence to 20*l.* per annum.

(*c*) In the case of mineral companies, such as gold, copper, or diamond companies, the abolition of the licence and the substitution of a tax on their net profits or dividends.

(*d*) In the case of brewery companies a licence based on the number of gallons produced, or on capacity of production—say, 2*d.* per gallon.

(*e*) Trust companies, 1*s.* per cent. on paid-up capital, but not exceeding 50*l.* per annum.

(*f*) Banks to be taxed on paid-up capital, with a maximum of 2,000*l.* per annum.

(*g*) Joint-stock companies not otherwise provided for, and not having head office in the colony, to take out a registration certificate of 5*l.*

New York Notes.

(By the Man from London.)

ANALYTICAL EXPERTS testified before the Senatorial Pure Food Investigation Committee at Chicago, that bakers' sweepings and clay are made into a paste and moulded so as to resemble coffee-beans, the colour being obtained by roasting. These spurious beans are mixed with real coffee-beans to make a cheap article.

DRUG-SMUGGLERS.—Four men were arrested in New York on May 17, accused of smuggling opium and high-priced drugs into this country. The detectives who effected the capture secured between $4,000 and $5 000 worth of valuable drugs, including a dozen 1-lb packages of phenacetin, a few pounds of opium, a large quantity of trional and sulphonal, and in the pockets of one of the men invoices from merchants in Canada were found

THE BILL FOR SHORTER HOURS has not yet become law, and it is probable that Governor Roosevelt will veto the measure after all, on the ground that it is without the support of the druggists and clerks generally. As a matter of fact, the drug-trade of New York has nothing to do with the Maher Drug-clerks' Shorter Hours Bill. It was simply a measure originating from labour-union agitators, who seek to affiliate drug-clerks to the labour-union organisations merely for what they can make out of them. But the opposition of New York pharmacists and drug-clerks to this labour-unionist speculation has resulted in several associations being formed by members in the trade, the latest being the Pharmaceutical Clerks' Association, which has already enrolled 250 drug-clerks of this city who are opposed to the so-called Drug-clerks' Short Hours League and to the Maher Bill, and are petitioning the Governor to veto the measure. They propose to draft a more acceptable measure on their own account.

URINE-ANALYSIS.—I notice the *C. & D.* has added a handbook on "Practical Urine-analysis" to its useful text-books for the trade. As I have mentioned before in these notes, some of the leading dispensing-houses in New York make a speciality of urine-analysis. One first-class firm I know get an average of five samples a day to analyse, the fee varying from $2 to $5 each. The following form used by them may be useful as a guide:—

Report of Urine-examination.

For Dr. Specimen

Specif. Grav. Quantity
Reaction Colour

	Qualitative	Quantitative
Urea ...		
Uric acid ...		
Chlorides ... as NaCl		
Phosphates as P_2O_5		
Sulphates ... as H_2SO_4		
Urates ...		
Albumin ...		
Mucin ...		
Peptones ...		
Sugar ...		
Blood ...		
Bile ...		
Pus ...		

	Microscopic
Fibrin ...	
Mucus ...	
Casts ...	
Epithelium	

I know that this business not only pays handsomely, but that it brings about that confidence and respect from physicians and patients which place the chemist in a higher sphere, whence he can look down upon cutting stores unmoved.

General Medical Council.

THE spring session of the Council, making the 67th since its institution, commenced on Monday, when a meeting of the Executive Committee was held to arrange business. On Tuesday shortly after noon the Council met in public at the offices, 299 Oxford Street, W, Sir William Turner, M.D., F.R.S. (President of the Council), presiding. Dr. Pye-Smith was introduced by Dr Church as the representative of the University of London in succession to the late Sir William Roberts, M.D. After Dr. Pye Smith had been welcomed Sir William Turner rose to deliver

THE PRESIDENTIAL ADDRESS.

Sir William confined his remarks strictly to the business which lies before the Council in the current session, which is expected to be a long one. He called attention to a bust of Sir George Burrows, a former President of the Council, and proceeded to refer to the death of Sir William Roberts, who, he said, had attained distinction as a scientific and practical physician, and whose loveable nature had endeared him to all who knew him. Reference was next made to the subject of death certification, upon which Sir William has had an interview with the President of the Local Government Board, who regretted his inability to introduce a Bill this Session dealing with the subject. Sir William next referred to the draft amendments to the Medical Acts dealing with the use of titles by persons whose names had been erased from the Medical Register, which draft had been objected to by a majority of the bodies interested, with the result that the amendments have been remodelled, and will be submitted to the Council in due course. The President then went on to speak about company-trading so far as it affects medicine and dentistry. His remarks were not very important, but such as they were we give:—

The committee of the Council appointed a year ago to obtain, if possible, an amendment of the law to restrain companies from conducting the practice of medicine, surgery, and dentistry, had continued in communication with the Lord Chancellor on this subject. He had the satisfaction to state that the Lord Chancellor had introduced a Bill into the House of Lords, which, should it become an Act, would render it unlawful for a company under the Companies Act to carry on the profession or the business of a physician, surgeon, dentist, or midwife, and if any company contravened this enactment it should be liable on summary conviction to a fine not exceeding 5*l.* for every day during which the contravention happened.

The President next dealt with the College of Preceptors matter and the question of general education, closing by stating that in the course of the session reports of special committees on the Midwives Bill, on the Companies Acts Amendment Bill, and on medical associations, would be submitted for consideration.

MEDICAL EXAMINATIONS.

A series of tables was submitted which showed the number of persons who had entered for the various examinations of medical bodies throughout the United Kingdom during 1898. The following are the more important of these. We may explain that in most cases there are First, Second, and Final professional examinations:—

English Double Qual.—1st, 248 passed, 138 failed; 2nd, 321 passed, 242 failed; Final, 489 passed, 302 failed.

L.S.A.—1st, 58 passed, 37 failed; 2nd, 74 passed, 59 failed; Final, 92 passed surgery, 117 failed, 169 passed medicine, and 79 failed.

Cambridge M.B.—119 passed Part I. 1st, 82 failed; 113 passed Part II. 1st, 76 failed; 107 passed Part I. 2nd, 81 failed; 91 passed Part II. 2nd, 110 failed; 79 passed Part I. Final, 61 failed; 61 passed Part II. Final, and 21 failed.

Durham M.B.—58 passed 1st (new register), 24 failed; 35 passed 3rd, 12 failed; 22 passed Final, 3 failed.

London M.B.—137 passed 1st, 119 failed; 87 passed Final, 67 failed.

Victoria M.B.—75 passed Part I. 1st, 60 failed; 72 passed Part II 1st, 42 failed; 70 passed Part I. 2nd, 54 failed; 66 passed Part II. 2nd, 36 failed; 58 passed Part I. Final, 33 failed; 35 passed Part II. Final, 41 failed.

Edinburgh M.B.—203 passed 1st, 36 failed; 202 passed 2nd, 72 failed; 179 passed 3rd, 9 failed; 137 passed Final, 11 failed.

Glasgow M.B.—298 were examined in the 1st, and 132 failed; 241 were examined in the 2nd, and 98 failed; 227 were examined in the 3rd, and 22 failed; 83 were examined in the Final, and 9 failed.

Irish Double Qual.—The rejections in these examinations are high in the Final, 107 having failed and 67 passed.

Scotch Triple Qual.—The failures were also highest in the Final, 237 having been rejected and 199 passed.

The report regarding dental examinations during 1898 showed that 47 failed and 78 passed for the L.D.S. England, 23 failed and 55 passed L.D.S. Edinburgh, 7 failed and 10 passed the L.D.S. Glasgow, and for the Irish L.D.S. 8 failed and 7 passed. Of the 15 candidates in Ireland 9 were *sine curriculo* and 7 of them failed.

Tables were also submitted in regard to the Preliminary examinations held throughout the United Kingdom.

Mr. Brown called attention to the large proportion of candidates rejected by the Victoria University He warmly urged that there must be something radically wrong; either the candidates were extremely ill-prepared. or the examination singularly erratic. He contrasted the results there with those at Edinburgh, and asked why there should be all this difference in results, and why candidates should be put to this expense and discouragement at London and Victoria so that they flocked to Edinburgh and o her schools where passing was so much easier. In order that this anomalous condition of things might be remedied, he moved that a committee be appointed to examine and report as to the passes and rejections in the final examination of the Edinburgh and Victoria Universities.

Mr. Victor Horsley seconded.

If Mr. Brown's remarks were not relished by the Victoria University representatives they were still more keenly resented by those who had experience of the "easy" examinations. The motion having been formally submitted in writing. at the stern demand of the President,

Dr. McVail (a Crown representative) wanted to know whether Mr. Brown knew any case of a student failing at Victoria and going on to Edinburgh.

Mr. Brown denied that he said or implied such a thing.

Dr. McVail further inquired whether Mr. Brown had gone into the figures of a series of years or merely taken up last year's returns, and whether he meant to insinuate that Edinburgh had been granting degrees on easy terms. Mr. Brown's was a very serious resolution, for it meant that Edinburgh had not been doing its duty, whereas it had always exacted an extremely high standard; and he could not imagine why Mr. Brown had taken these figures and sought to found upon them a charge of this kind.

Mr. Brown said he made no charge or insinuation.

The President (who represents the Edinburgh University): You did in your speech, Sir, though not in your motion.

Dr. McVail added that the aspersion on Edinburgh was most ridiculous and preposterous; but he was willing to move as an amendment that the tables be referred to the Education Committee. Dr. Leech (Victoria University) seconded. This amendment did not meet with much more approval than the motion Dr. Atthill (Irish R.C.P.) declared that the examinations were perfectly right and just; it would happen that there was a larger proportion of failures in one year, now at one place and now at another. Dr. Hector Cameron (Glasgow Faculty) pointed out that the tables of past years did not bear out Mr. Brown's contention. Sir John Tuke (Edinburgh R.C.P.) said the amendment would, if carried, throw an immense amount of unnecessary work upon the Education Committee, and protested against a firebrand being cast in amongst them. Dr. McAllister (Cambridge University), as one of the examiners, assured the Council that there were good and sufficient reasons for the rejections at Victoria. The President, observing that he could not let Mr. Brown's remarks pass without comment, avowed, with deep toned emphasis, that that gentleman was entirely in error if he thought Edinburgh offered easy examinations to attract students. He spoke with great deliberation from a long and intimate connection with all that went on in the medical department of that university. Sir Dyce Duckworth (London R.C.P), as chairman of the Education Committee, said the amendment proposed an impossible task; and he moved the previous question. Dr. Pettigrew seconded, and by 21 to 5 the Council agreed to thus quash both motion and amendment.

THE PRESIDENT AND MR. HORSLEY.

Mr. Horsley had given notice of the following motion:—

That the action of the President in ruling out of order the following notice of motion of the last session:—"Notice of Motion by Mr. Horsley.—To draw attention to a memorial furnished by certain Fellows of the Faculty of Physicians and Surgeons of Glasgow addressed to the Council respecting the insufficiency of the examination for the Fellowship of the Faculty, and to move a resolution thereon," on the ground that the matter did not come within the purview of the Council, was in contravention of the Medical Act, 1858.

The President opened the ball by calling attention, not without satisfaction, to inaccuracies in the motion, and to the fact that the motion quoted in it was not that which he had ruled out of order last session. No memorial addressed to the Council had been received from any Fellows of the Faculty of Physicians and Surgeons of Glasgow. A letter from Dr. Hugh Woods, Secretary of the London and Counties Medical Protection Society (Limited), had been sent to the Council, enclosing a letter from two Fellows, beginning "Dear Sir," but not addressed to any person or persons by name. It was forwarded to him (the President), who replied to Dr. Woods that the Council had no authority for inquiring into examinations beyond those admitting to the register, and that the matter was one for the consideration of the Faculty itself. He mentioned the matter to the Executive Committee immediately afterwards, and the members were of the same mind. No letter had been received from Dr. Woods since this answer was sent to him last June, nor any letter from any Fellow of the Faculty. Therefore the motion contained serious inaccuracies.

Mr. Horsley said it was copied from the programme of business of last session, but it appearing that the wording was altered from "certain Fellows" to "two Fellows" and from "respecting the insufficiency" to "the alleged insufficiency," before the motion was ruled out by the President. He lightly observed that the change had escaped his memory, and he was willing to alter his present motion accordingly. Mr. Horsley then launched forth into the subject-matter of his complaint, which was, as he remarked, wholly academic in character, and was enlivened only by the passages at arms it involved between the authoritative pronouncements from the chair and the clear-cut assurances of the irrepressible direct representative. Mr. Horsley desired to trace the President's ruling to a clerical error in "Table G" of the Register (which shows the registrable qualifications), and argued that if this was accepted the Council would place themselves in direct contravention to the Medical Act of 1858

Dr. Bruce seconded the motion as amended.

The President said, with all the solemnity the impeachment demanded, that a specific charge had been brought against him of contravening the Act. Table G was not in his mind at all; he barely knew of its existence; his only authority was the Act of Parliament, section 30 of which laid down that every person registered who might obtain any higher degree than his qualifying degree should be entitled to have such higher degree or qualification inserted in the Register in substitution for, or in addition to, the qualification previously registered on payment of a certain fee. For a short time the discussion revolved round the right of the Council to superintend the higher examinations, it being contended that this was a matter depending upon the various bodies themselves, and that the Council's duty was simply to enable the public to distinguish between the qualified and the unqualified. Mr. Horsley stuck to his guns, avowing that they could not, under the shelter of section 30, escape the duties imposed by section 18. Complication was introduced by reference to qualifications under the Public Health Act; and the President was soon in a fix as to what motion he should submit to the meeting, since, if Mr. Horsley's was made accurate, it ceased to be the motion ruled out of order which his present motion declared it to be. Dr. McVail came to the rescue by moving that refuge for the cornered "the previous question," or rather "the next order of the day," which was seconded by Dr. Heron-Watson, and carried by 23 to 4.

INSPECTION OF DOCUMENTS.

The Council then settled down to consider the Executive Committee's report with regard to the inspection of the

Council's documents by individual members. It is now agreed to make the Registrar responsible for the documents, and he is to require three days' notice to inspect and to produce those so notified. Before the Council adjourned until Wednesday Mr. Horsley obtained through the chair permission to inspect the documents relating to the memorial from two Fellows of the Faculty of Physicians and Surgeons of Glasgow, forwarded through Dr. Hugh Woods. Mr. Horsley dies "game."

Wednesday's Proceedings

commenced with a motion by Mr. Brown in the following terms:—

That in the opinion of the Council the time has come when it is expedient to confer on the registered medical practitioners resident in England and Wales the power of returning an additional member to the General Council, as provided for in the Medical Act of 1886.

Mr Brown pointed out that the medical men in England and Wales had since 1886 increased from 16,978 to 21,614 now. This was the basis of his appeal. A similar resolution was vainly moved by Sir Walter Foster in 1895.

The motion was seconded by Mr. Horsley, who "reserved" his speech.

The President's invitation for observations was tardily responded to, but so many eventually took part in the discussion which followed that it would have been most interesting had not nearly all taken the same view.

For the motion, Mr. Glover and Sir Wm. Thomson were the solitary voices supporting, and Sir R. Thorne Thorne, and Dr. Leech appeared not to have decided views either way; and against the motion, chiefly because it meant enlargement of the Council, Sir John Gairdner led off, and was followed by Dr. Teale, Dr. Little, Mr Brudenell Carter, Mr. Tichborne, Dr. Pettigrew, and Dr. McVail.

Mr. Brown replied with some spirit to the various objections, but the voting showed that little impression had been made on the Council, seven going for the motion, and twenty-one against.

The Companies Acts Amendment Bill.

The report of the Committee on the Companies Question stated that the idea of endeavouring to obtain a clause in a Companies Acts Amendment Bill had been abandoned [this statement was unfortunate], but that a short separate Bill had been prepared by the Government draftsman. The Committee, which comprised Sir William Turner, Mr. Victor Horsley, Mr. Tichborne, and Mr. Tomes, recommended that the words "medical practitioner" should be inserted after the word "surgeon" in the Bill, and proceeded to refer also to the Pharmacy Bill. It stated that the Council of the Pharmaceutical Society of Great Britain were dissatisfied with it, and that his had occasioned some delay. It was added that the two Bills were drawn by the direction of the Lord Chancellor, after due consideration of the data placed before him, and "may therefore be taken to embody such provisions as appeared to him to be practicable and applicable to the two cases." The communication from the Pharmaceutical Society of Ireland inviting the General Medical Council to use its influence to get pharmacists and druggists included in the Companies (Medical Profession) Bill was also referred to; but the Committee advised that the Pharmaceutical Council of Ireland should be informed that the General Medical Council felt that, inasmuch as its duties are solely in relation to the Medical Acts and the Dentists' Act, it is beyond its province to deal with the matter alluded to. The Committee appended to their report full particulars of Doctor Bland (Limited), and explained that there is no such person as Dr Bland registered as resident in Ireland; but notes that two of the signatories are on the medical register, while five are described as pharmaceutical chemists, and one as a mercantile clerk.

Mr. Tomes brought up the report, and moved:—

That the President be requested to address to the Lord Chancellor a communication to the following effect:—The General Medical Council desire to express thanks to the Lord Chancellor for the action which he has taken with regard to the Companies (Medical Profession) Bill. They consider that the addition of the general term "medical practitioners," in clause 1, is very desirable, and that with this addition the Bill would amply guard against the evils dealt with by it. They hope that, in view of the fact that the incorporation of companies of the class dealt with in the Bill, of which they append two fresh examples, is still actively going on, the Lord Chancellor may see fit to proceed with the Bill at an early date during the present session.

The resolution was adopted.

Unqualified Dispensers,

The communications from the Privy Council office in regard to the employment of unqualified persons as dispensers, had been referred to the Council by the Executive Committee accompanied by the following resolution:—

That the Committee recommend the subject to the consideration of the General Council, but in the meantime express to the Privy Council that, whilst they fear that occasional accidents may arise from the employment by qualified medical practitioners of careless or incompetent dispensers, the cases, in their opinion, are very rare, and it appears to the Committee that probably the best protection is afforded to the public by the responsibility of the practitioner for the acts or defaults of the servants whom he employs.

The letters referred to by the Privy Council were from Mr. Arthur Oglesby (Barnsley) and Mr. Albert Cooper (South Kensington). At Mr. Brown's suggestion, these were read, the matter being, he said, most important. He added that he was not satisfied with the resolution of the Executive Committee, and urged that the Council should take steps to enforce the employment of qualified assistants in view of the lamentable results recorded. The Apothecaries Act of 1815 had provided for the examination of qualified assistants and dispensers, and he thought the Apothecaries' Society must have neglected its duties.

Mr. Carter (who represents the Apothecaries' Society) said a resolution had been sent to the Privy Council pending the meeting of the General Council, and that it was now referred to them.

The President asked if Mr. Brown was prepared to move that the question be deferred till a later period of the session.

Mr. Brown said it was far too important a consideration to be settled off-hand. He had hoped the Executive Committee would be prepared with a resolution.

Dr. Glover said, as one of the Executive Committee, that they had shown their sense of the importance of the letters by referring them to the Council.

Ultimately Mr. Brown proposed a motion, which was seconded by Mr. Bruce, and carried—

That a special committee be appointed to consider the communications regarding unqualified dispensers forwarded by the Privy Council and report during the present session.

A committee was accordingly formed, consisting of Mr. Brown, Dr. Bruce, Mr. Teale, and Dr. Leech.

Identification of Registered Practitioners.

A resolution as to the best means of identifying registered medical and dental practitioners was amended by Mr. Horsley, added to by the President, and finally emerged as follows:—

That a special committee be appointed to report during the present session upon the best means of securing the identification of persons applying to be placed on the register of medical or dental practitioners either on the first registration or subsequent re-registration, and to prevent fraudulent personation of such practitioners; and that the whole subject of granting certificates of registration be also referred to the same committee for consideration and report.

The value of chemicals, paints, and oils imported into Batoum during 1898 was 12,144*l.* (736 tons), as against 23 983*l.* (1,399 tons) in 1897, and sulphur 4,951 tons (16,091*l.*), as against 4,999 tons (16,096*l.*) in 1897.

The Liquorice-root Trade at Aleppo, says the British Consul of that town, is in the hands of two companies—viz., MacAndrews & Forbes, of Smyrna (British), and the Stamford Manufacturing Company (American)—whose headquarters are at Alexandretta. Almost the entire amount exported is absorbed by the United States, the quantity exported last year being 4,662 tons, with a value of 32 535*l.* in excess of that shipped in 1897.

Novelties.

SUMMER LINES.

MESSRS. BLEASDALE (LIMITED), of York, have several new saleable specialities ready for the summer trade. We have little hesitation in placing as the first of these the Concentrated Claret Cup, which is a well-flavoured compound that only requires aërated or plain water and a piece of ice to make the favourite beverage. It should be popular owing to the facility with which the "cup" can be made at a comparatively cheap rate. The "P. & O." chutney made by the firm is very good both in flavour and pungency, and is put up in bottles suitable for the table. We commend also the Bleasdale Salad-dressing Cream, a piquant and inseparable compound which is ready for use without any addition whatever.

A POT-COVER.

MR. WILLIAM LANE, who for many years was one of Messrs. S. Maw, Son & Thompson's representatives, in his retirement keeps thinking of the needs of pharmacy, and he has hit a real one in his grease-proof ointment-covers. These are simply grease-proof paper cut to the size of the more commonly used covered ointment-pots — ½-oz., 1-oz., 1½-oz., and 2-oz. They do for pots what the pleated bottle-cap has done for bottles. We do not know what more can be said of them, for the mere mention that such useful covers are made will set all good dispensers after them. We may, however, add that the "Kozie" covers are 1*s.* 6*d.* per gross, and any names up to twenty letters can be embossed on each cover, in quantities of not less than six gross, at 6*d.* per gross extra. Special sizes and shapes can also be made. The wholesale agents are Messrs. S. Maw, Son & Thompson, Aldersgate Street, E.C.

CHAMELEON FLY-CATCHER.

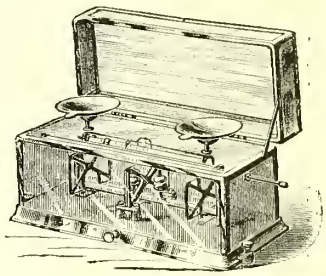
STICKY fly-catchers have hitherto "crossed the line" with difficulty, because it is almost impossible to so prepare and protect the sticky composition that it will not change by the heat and moisture of tropical climates. This is especially true of string catchers, but we believe the difficulty has been solved by the "Chameleon" Patents Manufacturing Company (Limited), who have conceived the idea of putting up the sticky composition in collapsible metal tubes. The neck of each tube is divided into two by a slit about $\frac{1}{40}$ inch wide. Strings of bast fibre are supplied with each tube. To make a sticky string one simply removes the screw-stopper and puts a bast fibre in the slit as shown in fig. 1. The screw-stopper is then replaced as in fig. 2, and on drawing the fibre through the slit it comes out fully coated with the sticky composition. There is enough in a 1*d.* tube to make a dozen strings. The Company give two bast fibres with each 1*d.* worth, and a larger number with the 3*d.*, 6*d.*, and 1*s.* tubes. The 1*d.* catchers are put up on three-dozen cards. They will be one of the successes of the summer. It is quite obvious from the description and illustrations that the "Chameleon" is as suitable for export to the Colonies and India as for use at home. The company's address is St. Ann's Works, St. Ann's Hill, Wandsworth, London, S.W.

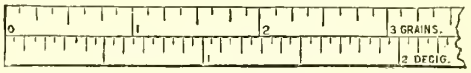
FIG. 1.

FIG. 2.

"TORSION" DISPENSING-BALANCE.

AT the Chicago Exhibition a new style of weighing-balance attracted considerable attention, because the principle of knife-edges was departed from and replaced with fine, but strong steel bands. The inventor of the balance had taken this idea from the pendulum, in which there is a band of steel to impart that amount of resiliency necessary for a delicate movement. In the "Torsion" balance the steel bands are stretched round X-shaped supports, one of which is placed exactly in the centre of the beam and one at each end. When the beam oscillates the band is seen to move from side to side, spring-like, until equilibrium is established. One recommendation of the device is that there is practically no friction, as in the case of knife-edges, hence no wear, and the balance retains its sensitiveness unimpaired for years. Messrs. John Timpson & Co. (Limited), 104 Golden Lane, E.C., have taken up the sole agency of this "Favourite" balance for Great Britain. This balance is figured in the above sketch. It is exceedingly compact, and although it has some resemblance to a rickety French affair which has for some years been on the British market, the latter in no wise resembles the "Favourite" in construction. An excellent feature of this balance is the rider-beam, which we think will be much appreciated by pharmacists. This beam carries a rider, which is moved along by the usual stirrup arrangement, so that fractional parts of a grain may be determined by moving it. The beam is divided into parts of a grain and parts of a gramme, and indicates up to 8 gr. A section of this scale which we show explains the arrangement. The balance is sensitive to $\frac{1}{64}$ gr. We have checked the weighings by it with an analytical balance and find it to be accurate. The balance is strongly constructed of heavily-nickelled brass, the sides and cover being of plate-glass; it is supplied with levelling-screws and stop-screw, as in the analytical balance, and is completely enclosed so as to exclude dust and moisture. The pans are made of German silver. The London County Council Weights and Measures Committee have authorised the stamping of the scales. This is a somewhat extraordinary concession, because the presence of the rider makes the instrument both scales and weights, and the Committee had no precedent for the





authority. However, the members of the Committee were convinced of the utility of the balance, and gave Messrs. John Timpson & Co. the authority to have the balance stamped. We understand that several first-class West-end pharmacists have promptly added the balance to their dispensing-appurtenances. The cost-price is seven guineas.

Trade Notes.

THE Berkefeld Filter Company (Limited), 121 Oxford Street, W., were exhibiting at the Medical and Surgical Exhibition last week, and explaining to medical men the advantages their filters possess.

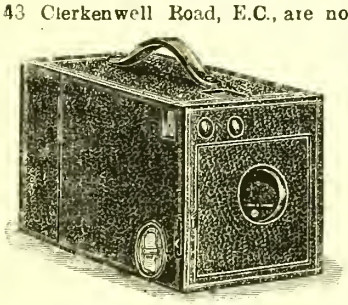
WHAT IS DYLISSIA?—The publishing department of this paper know, but say it is a profound secret which they must not communicate even to the editorial department. It is paid for, however, they add, and that is enough for the E.D. to know.

MESSRS. S. MAW SON & THOMPSON announce an advance in the prices of medical dispensing-bottles. This, they intimate, is due to the increased cost of fuel and other raw materials, as well as to the restriction of the hours of labour by the Workmen's Trade Union.

NEW PRICE LIST.—Messrs. J. & L. Hatrick & Co. (Limited), 82 Turnmill Street, E.C., have issued a new edition of their price-list. It is supplied to any chemist who applies for it, and on account of the useful pharmaceutical machinery and chemists' requisites embraced in it cannot fail to interest those who who send for it.

THE Warwick Trading Company (Limited), 4 and 5 Warwick Court, High Holborn, W.C., are issuing a booklet giving particulars of their "Biokam." The Biokam is an apparatus for taking, printing, and projecting animated photographs. Photographic dealers are likely to receive inquiries for the apparatus from their customers, especially as the prices at which it is sold are quite moderate.

"ZENITH" CAMERAS manufactured by Kodak (Limited), 43 Clerkenwell Road, E.C., are now made in quarter plate and 5 by 4 sizes. The cameras are constructed so that either plates or films may be used, the cartridge roll-holders being interchangeable with the plate-holders. A focussing-screen is fitted to the "Zeniths" in addition to the focussing-scales, and view-finders are provided for use either in the vertical or horizontal position. A quarter-plate "Zenith" fitted with a plate-holder and film-holder sells at 2*l.* 10*s.* These cameras are covered with leather, and the illustration gives a fair idea of their neat appearance.



TATCHO is raising a family. "Tatcholine" is a hair wash and restorer free from grease, but with some of those same benignant properties which caused George R. Sims's hair to grow again, to his own and the world's gratification. In ordinary cases it is only to be used once a day; "in severe cases" it may be used night and morning; what would happen if anyone should inadvertently use it three times a day is not stated. "Tatcho Embrocation" is a thick white emulsion of the familiar character. A 4-oz bottle is offered for 1*s* 1½*d.* It is not stated that G. R. S. had any share in prescribing the formula for this, though it is associated with his honoured name. We notice that he abstains so far from inventing a Tatcho remedy for his familiar gout and dyspepsia. The remedies are made by the Geo. R. Sims Hair Restorer Manufacturing Company, Farringdon Avenue, E.C.

THE imports of soap into Foochow rose from 168,800 lbs. in 1897 to 197,867 lbs. in 1898.

Trade-Marks Applied for.

Anyone who objects to the registration of a trade-mark must address the Comptroller-General, Patent Office, Chancery Lane, W.C., within a month of the date of publication.

When "no claim" is mentioned in the subjoined abstracts, this implies "no claim for the exclusive use of the word" in inverted commas.

(*From the "Trade Marks Journal," May* 17, 1899.)

SPARKLENE" (no claim for "Sparkle"); for mineral and aërated waters. Aërators (Limited), Blomfield Street, E.C. 221,792.

Device (the essential particular) of circular label with picture of girl cleaning dress; for a grease-remover. H. S. Benjamin, 3 New Union Street, E.C. 220,869.

"CHEVEULINE"; for a hair preparation. T. M. Davis, New Cross, S.E. 219,738.

Combination of devices (the essential particular), being a circular label, with masks, harp, thistle, and rose; for a violet powder. H. Abdy, Stepney, E.

"NARCÉOL"; for perfumery and toilet articles. Actien Gesellschaft für Anilin Fabrikation, Berlin. 221,874.

(*From the "Trade Marks Journal," May* 24, 1899.)

"HYDROSALIS" and "HYDROTERGENT" (no claim for "Hydrosal" or "Hydro"); for a chemical and a mixture of chemicals. Powell & Scholefield, Liverpool. 215,846

"SOLOID"; for chemicals and food-substances, and "ENULE" for veterinary suppositories. Burroughs, Wellcome & Co., Snow Hill Buildings, E.C. 219,715, 219,716, 219,717, 221,973.

"AUROLINE"; for a liquid-gold paint. R. M. Herdman, Liverpool. 219,904.

Oval design of an Eastern shepherd with a lamb on his shoulders; for veterinary preparations. S. Pettifer & Sons, Malmesbury. 221,843.

"CHINOSOL" (no claim for "Chino"); for chemicals and for perfumery and toilet-articles. F. Fritzsche & Co., Hamburg. 221,896, 221,898.

"VAMPIRE"; for a sticky fly-catcher. Kay Brothers (Limited), Stockport. 222,079.

"JESOLINE"; for chemicals. Jeyes (Limited), Cannon Street, E.C. 222,196.

"VIGORAL"; for goods in Classes 3 and 42. Armour & Co., West Smithfield, E.C. 216,221, 216,222.

"DENTAVOLINE" (the essential particular); for a toothache-remedy. A. W. Shirras, Aberdeen. 219,193.

"THIALION" (no claim for "Thiol"); for chemicals. Vass Chemical Company, Connecticut, U.S.A. 221,418.

"ANTIARTHRIN"; for chemicals. Reitmeyer & Co., Crutched Friars, E.C.

"DERMOGEN" (no claim for "Dermo"); for medicated preparations. Hodgson & Hodgson, Nottingham. 221,683.

"GAMBENE"; for a substitute for gambier. J. Burdon & Co., Leadenhall Street, E.C. 216,643.

"THE BIOKAM"; for a combined camera and cinematograph. Warwick Trading Company (Limited), High Holborn, W.C. 221,370.

"DEMÖS"; for a sugar substitute. Stevenson & Howell (Limited), Southwark Street, S.E. 218,695.

"NUTRINA," and picture of the infant Moses in the bulrushes; for an infants' and invalids' food. Abernethy & Co., Hackney, E. 219,877.

"OXO" (no claim for "Ox"); for a fluid beef. Liebig's Extract Company (Limited), Fenchurch Avenue, E.C. 221,355.

"CAFOLIN" (no claim for "Café"); for a coffee-extract. H. Eschevege, Forest Hill. 221,774.

"MUSKITINE" (no claim for "Musk"); for toilet-requisites. T. F. Bristow & Co., Clerkenwell, E.C. 217,913.

"GAIETY" and "LOVEBIRD"; for perfumery and toilet-articles, Erasmic Company (Limited), Warrington. 221,065, 221,066.

"KARMI"; for perfumery and toilet-articles. M. W. Carmichael, New Bond Street, W. 221,709.

"IROLENE"; for perfumery and toilet-articles. Anilin Fabrikation, Berlin. 221,779.

Legal Reports.

Bovril (Limited) *v.* Bouillion Fleet (Limited) and Others.

SETTLEMENT OF THE LITIGATION.

IN the Court of Appeal on Tuesday, before the Master of the Rolls, Sir Francis Jeune, and Lord Justice Romer, the cases of Bovril (Limited) *v.* Bouillion Fleet (Limited), and the same against MacSymons Stores (Limited), McBirnie; Evans; Shaw, and J. P. Evans, of Liverpool and Birkenhead, were down for hearing, on appeal by the defendants, from an order of Mr. Justice Byrne. On the cases being called on, Mr. J. Cutler said that the litigation was compromised the previous afternoon, and their Lordships would not be troubled with it; but there was a technical difficulty with regard to one of the cases, and he should ask leave to mention the matter later.

Mr. Astbury, Q.C., said he believed the matter in dispute was practically arranged; but as proper authority had not been obtained from one of the defendants to enter into the agreement, it would be necessary to mention the matter again.

Merchandise-marks Acts.

AËRATED WATER BOTTLES.

IN Falkirk Sheriff Court on May 25, James Haddow, bottler and aërated-water manufacturer, was charged, at the instances of various other aërated-water manufacturers in the district, with selling aërated waters in bottles branded with the trade-mark or names of the complainers. Respondent pleaded not guilty, and the case was adjourned for proof.

An Electro-chemical Patent.

THE *Patent Journal* of May 25, 1899, contains a full report of the case of the Castner Kellner Alkali Company (Limited) *v.* the Commercial Development Corporation (Limited), heard in the Court of Appeal in March and April last, when two of the three Lords Justices ruled that the contested patent of the plaintiff company was invalid.

Sale of Food and Drugs Act.

SWEET SPIRIT OF NITRE.

AT Dartford Petty Sessions on May 27, Mr. W. P. Tucker, chemist, Dartford, was fined 20*s.* and costs for selling spirit of nitrous ether which contained only 1·28 per cent. of ethyl nitrite. In defence, Mr. Tucker said the sample was sold by mistake from some old stock.

CAMPHORATED OIL.

AT Birmingham Police Court on May 26, Joseph Gilman, Stafford Street, was summoned for selling camphorated oil which contained 74 per cent. of oil other than olive oil. The charge was admitted, the explanation being that the man who made the oil had instructions to make it according to the B.P., but instead of using olive oil he put in sweet oil. It was a pure mistake, and the article would probably have been right on any other occasion. It was also admitted that sweet oil is cheaper than the olive oil, and a fine of 5*l.* and costs was imposed.

LIME-WATER.

AT Rochester on May 26, H. J. Willis, chemist, was summoned for selling lime-water deficient in calcium hydroxide. He pleaded not guilty, and said the lime-water was pure when he served it, but on pouring it into the bottle he noticed that a portion of the lime was thrown out of solution, because the bottle had been rinsed with tap water. The Chairman said a technical offence had been committed, and inflicted a fine of 1*s.* and 10*s.* costs, but added that the proceedings did not cast the slightest slur on Mr. Willis.

New Companies & Company News.

DOCKER BROTHERS (LIMITED).—Capital 150,000*l.*, in 5*l.* shares (15,000 preference). Objects: To acquire the business carried on by Docker Brothers, at Birmingham, and elsewhere, and to carry on business as varnish, oil and colour merchants, chemists, druggists, drysalters, &c. The first directors are J. Lacy, J.P., F. D. Docker, and L. C. Docker.

DIAMOND SODA-WATER MACHINE COMPANY (LIMITED).—Capital 40,000*l.*, in 10*l.* shares. Objects: To enter into an agreement with Bernhard Baron, inventor, of St. James's Place, London, E.C., and to manufacture, sell and deal in aërated and mineral waters, and aërated-water machinery and apparatus. The first directors are C. H. Tripp, F. Bishop, B. Baron, W. B. Ogden and D. V. Morse.

FRANCIS MEADE & CO. (LIMITED).—Capital 20,000*l.*, in 1*l.* shares. Objects: To take over as a going concern the business of Messrs. Francis Meade & Co., patent-medicine vendors, druggists' sundriesmen, drysalters, &c., Langport. The directors are Francis Meade, C.C., Francis Marshall Meade (both of whom will act as managing directors for at least seven years), Wm. Chas. Morris, and Francis Webb.

ANGLO-SPANISH SALT SYNDICATE (LIMITED).—Capital 60,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with the Natural Epsom Salts Syndicate (Limited), and its liquidator, for the purchase of the saline lake or lagoon known as La Mina Fortuna, in the province of Albacete, Spain, and to win, evaporate, prepare and deal in sulphate of magnesia and other chemical or mineral products. Registered office, 5 Victoria Buildings, St. Mary's Gate, Manchester.

RECKITTS (LIMITED).—Capital 1,700,000*l.*, in 10*l.* shares (50,000 4½ per cent. cumulative preference). Objects: To acquire the undertaking of Reckitt & Sons (Limited), to adopt an agreement with Thomas H. Ferens for the purpose, to manufacture, sell and deal in starch, colours, washing-blue, blacklead, emery, emery-paper, groats, corundum and alumina, mustard, &c., and to carry on the business of miners, chemical manufacturers and dealers, millers, chemists, druggists, drysalters, oil and colour men, soap manufacturers, perfumers, polishers, dyers, and metallurgists. The first directors are Francis Reckitt, James Reckitt, Geo. Reckitt (each with 1,000*l.* per annum), Thomas R. Ferens, Waring W. Tothill, Arthur B. Reckitt and Harold J. Reckitt (with remuneration as the company may decide). Qualification, 1,000*l.*

WHITE & STACEY (LIMITED).—Capital 3,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at 78 Willesden Lane, Kilburn, N.W., and to manufacture, sell and deal in druggists' stores, grocers', oilmen's, corn-chandlers' and harness-makers' sundries, condition-powders for horses and cattle, horse and cattle medicines, and embrocations, oils, disinfectants, &c. The first subscribers (each with one share) are:—A. St. V. Turquand, 16 St. Augustine's Road, N.W., accountant; A. W. Boughton, 8 Carlton Street, N.W., accountant; Geoffrey B. Stacey, 12 Belgrave Road, Pimlico, S.W., wholesale druggist; W. G. White and G. Clarke, engineers, 17 Larch Road, Cricklewood, N.W.; J. A. Perry, 56 Cambria Road, Camberwell, warehouseman; A. Hammond, 35 Turner Road, Lee, S.E., gentleman. Registered without articles of association.

J. C. & J. FIELD (LIMITED).—The net profits of this business for the past year are reported at 18,689*l.*, out of which, after paying 6 per cent. and 7 per cent. on separate issues of preference shares, a dividend of 5 per cent. and 1 per cent. bonus is recommended on the ordinary shares, and 7,000*l.* is placed to reserve fund.

COLOMBO APOTHECARIES' CO. (LIMITED).—The annual meeting of the shareholders of this company was held during April. The Hon. W. W. Mitchell, C.M.G. (Chairman), presided. The report was referred to in our issue of May 20 (page 806). The Chairman, in the course of his remarks, said that the business had never been so flourishing as it is now, and he expressed in cordial terms the esteem of the directors for their indefatigable manager, Mr. Davidson, and of Mr. Smith, the secretary of the company, who had lately been dangerously ill.

TRITICINE (LIMITED).—In the Companies Winding-up Court on Wednesday, before Mr. Justice Wright, Mr. Martelli, in the case of Triticine (Limited), and Hick v. Triticine (Limited), said he had a motion for a writ of attachment against Mr. Goodall (the receiver of the company). On March 8 last an order was made discharging him and ordering him to lodge accounts. These accounts had not been lodged, and he moved for an attachment before Whitsuntide. Some accounts were handed in, and the matter stood over so that Mr. Goodall might verify them. He had not done so, and he now asked his Lordship to make an order. It would not be acted on if the accounts were verified. Mr. Goodall had been served with notice and copies of affidavits. His Lordship said he would make the order, but it would lie in the office for a fortnight, with leave to Mr. Goodall to apply for it to be discharged if he lodged the accounts.

Gazette.

PARTNERSHIPS DISSOLVED.

Drew, J., Cadman, J. R., Drew, E. J., and Cadman, J. R., jun., under the style of Drew & Cadman, High Holborn, W.C., shop-front builders and shop-fitters.

Mayes, W. F., and Mayes, J. E., under the style of Mayes & Son, Katherine Road, East Ham, E., mineral-water manufacturers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Gray, Archibald Campbell, and Dixey, Clement Gough, late Pemel's Place, Queen's Road, Peckham, S.E., late mineral-water manufacturers.

ADJUDICATIONS.

Browne, G. Buckston, jun., late Guy's Hospital, S.E., medical student.

Goodfellow, William Richard, Roche, Cornwall, surgeon.

Business Changes.

Notices of changes in the retail trade, and opening of new businesses, are inserted in this section free of charge, if properly authenticated.

MESSRS. GIBBONS & SONS, chemists, Manchester, have removed from Market Street to King Street.

MR. WILLIAM ELMITT, chemist, Leicester, has purchased, the business at 193 Osmaston Road, Derby, lately carried on by Mr. Thos. Hodgkinson, who has retired.

MR. ROWLAND ROBERTS, chemist, Ellesmere Port, has had his shop entirely refitted by Messrs. Ayrton & Saunders, of Liverpool. It is now a very handsome pharmacy.

MR W. H COLTON, chemist, Sheffield, has, owing to street improvements, removed his business from 215 Gibraltar Street, which he has tenanted for twenty-six years, to 104 Addey Street.

MESSRS. ANTHONY & Co., chemists and druggists, Cardiff, have enlarged their premises by the inclusion of the adjoining shop. The dispensing-department has been removed to the first floor, so as to give a larger space on the ground floor for customers.

MR. CHARLES MCCOMBIE, whose partnership in the firm of Messrs. C. Gross & Co., Mincing Lane, E.C., has expired, has commenced business as an essential oil merchant at 19 St. Dunstan's Hill, Great Tower Street, E.C., under the style of Messrs. C. McCombie & Co.

THE imports of commercial carbonate of soda into Leghorn during 1898 show a substantial decline, owing to the local soapworks being less active. The imports from Great Britain however, show an increase of 4,000 cwt. The figures are:—1898, 59,552 cwt. (11,484*l*.), including 18 003 cwt. (3 472*l*.) from Great Britain; 1897, 64 561 cwt. (value 11 402*l*.), including 14,103 cwt. (value 2 720*l*.).

Deaths.

HALEY.—At Stanningley, on May 22, Mr. Emanuel Haley, chemist and druggist. Aged 64. The late Mr. Haley was apprenticed with Mr. J. Harrison, chemist, Stanningley, and afterwards commenced business on his own account in the town in the shop now occupied by Mr. J. Pontefract. Mr. Haley resided for many years at Ilkley, and only returned to Stanningley a few weeks ago on a visit to his brother.

PULHAM.—On May 24, at Trowbridge, Mr. Cyril Pulham, dispenser to Dr. Sylvester. Deceased was a well-known musician, and organised many charitable concerts.

TAYLOR.—At Glasgow, on May 23, Mr. James Taylor, wholesale druggist. Aged 87. Mr. Taylor carried on business in the Trongate for fifty years, and was a well-known and much-respected business man. He leaves a widow and two sons, who will carry on the business under their father's name.

TOWAN.—On May 11, at her residence, Mary Anna, wife of Mr. F. W. Towan, chemist and druggist, and daughter of the late Mr. David Evans, Lurgan.

WELLS.—At Trinity, Edinburgh, on May 26, Mr. William Wells, chemical-manufacturer. Aged 59.

WOODWARD.—On May 12, at St. George's Hospital, Bombay, of enteric fever, Mr. John Thompson Woodward, chemist and druggist, with Messrs. Treacher & Co. (Limited). Aged 28.

WORLÉE.—At Hamburg, on May 29, Mr. Emile Heinrich Worlée, of the firm of Messrs. E. H. Worlée & Co.

Wills of Deceased Chemists.

PILLEY.—The will of Mr. Samuel Pilley, chemist and druggist, Bargate, Boston, and Skirbeck, near Boston, who died on March 7, has been proved in London by Mr. Samuel Pilley and Miss Ann Pilley, the son and daughter of the testator. His estate was sworn at 18,259*l*. 9*s*., of which 16,716*l*. 16*s*. 6*d*. is net personalty.

PRATT.—The will of Mr. J. B. Pratt, chemist and druggist, Newbury, who died on June 20 last, has been proved by Mr. Thos. Henry Pratt, chemist and druggist, Newbury, a son of the testator, whose estate was sworn at 3,969*l*. 13*s*. 10*d*., of which 3,052*l*. 9*s*. 6*d*. is net personalty.

SINCLAIR.—The late Mr. John Gordon Sinclair, chemist and druggist, 5 W. Montgomery Place, Edinburgh, and Nottingham, having died intestate on February 28 last, letters of administration to his estate have been granted to his widow, by whom the value thereof is sworn at 697*l*. 10*s*. 10*d*., of which 508*l*. 18*s*. 11*d*. is net personalty.

SMITH.—The will of Mr. John Smith, chemist and druggist, Saxmundham, Suffolk, who died on October 7, 1898, has been proved by Mr. Sam Dale, Mr. Arthur Hayward, and Mr. S. A Flick, all of Saxmundham. The testator's estate was sworn at 9,191*l*. 18*s*. 1*d*., of which 7,396*l*. 0*s*. 10*d*. is net personalty.

STAFFORD.—The will of the late Mr. William Stafford, pharmaceutical chemist, Gloucester, has been proved by Mr. Joseph Ward, chemist, Gloucester, and Mr. Adolphus Ballard, ironmonger, Chichester; the testator's estate was sworn at 27,758*l*. 5*s*. 9*d*., of which 21,385*l*. 10*s*. 10*d*. is net personalty.

TAYLOR.—The will of the late Mr. John Taylor, chemist and druggist, 41 Highgate, Kendal, Westmoreland, has been proved by Mrs. Taylor, the widow, Miss Agnes Taylor, the daughter, and Mr. Alfred Taylor, chemist and druggist, 41 Highgate, Kendal, the son of the testator, whose personalty was sworn at 2,003*l*. 18*s*. 4*d*.

WESTWOOD.—The will of the late Mr. Henry J. Westwood chemist and druggist, Victoria Road, Chelmsford, has been proved in London by Mr. Sidney W. Shields and Mr. Albert Searles, the executors of the testator, whose personalty was sworn at 1,242*l*. 3*s*. 5*d*.

A Scent Centenary.

WHEN Count Rumford was busy founding that now famous scheme of science and philanthropy in Albemarle Street, W., another man was quietly settling down not far from him, and next door, in Gerrard Street, to the poet Dryden, to establish a business which was to beat the French and be cotemporaneous with the Royal Institution. This was James Atkinson, a Cumberland lad, who, young in years and large in confidence, set himself to manufacture perfumes in England that would be equal to the French essences, the manufacturers of which at that time had the monopoly of the trade. Now the whirligig of time brings us to the dawn of a second century of the Cumberland lad's venture, and we thought the matter one of sufficient interest to make some inquiry about.

A call upon Mr. Eugene V. Barrett, the managing director of the business, convinces one that a centenary in perfumery is at hand, for he has new scents within wafting distance, but our inquirer's appetite was for dates, anecdotes, old portraits, and things of that sort, which Mr. Barrett's predecessors did not dream of hoarding for posterity. There is, however, the fact to begin with that James Atkinson started at 44 Gerrard Street, in 1799, as a manufacturer of perfumes and toilet-articles, including toilet-soap. He was a wholesale dealer only, and appears to have done very well in Gerrard Street. It was he who introduced the pomade known as "bear's grease," and there is a story told of how smartly he advertised it by keeping a live bear in an enclosure fronting the shop. This "took the town," and fixed the grease in and on the heads of the dandies of the day. It is a pretty but mythical story—worth recalling, however, because the Atkinson firm of to-day have little show bears which they use as advertisements.

By-and-by, but when we cannot exactly say, Mr. Atkinson removed to No. 37 Old Bond Street, where he opened a retail shop, and extended the manufacturing department. It was here that he invented the perfume called "Spring Flowers," which in the early decades of the century was all the rage. His shop became a fashionable resort, and Mr. Atkinson found it so good a thing to attend to the retail that he was glad to have the co-operation of his brother Edward in the manufacturing and wholesale, and in 1831 he became a partner. The next move was to No. 24 Old Bond Street, at the corner of Burlington Gardens. The premises as they were in those days, before crinolines and plate-glass came in, are shown in the sketch which we reproduce from an old

No. 24 NEW BOND STREET AS IT WAS BEFORE IMPROVEMENT.

wood-engraving. Mr. Edward Atkinson pushed the wholesale business eagerly. He was not slow in following up the casual business which country squires brought to Bond Street by getting chemists in the provinces to stock the Atkinson perfumes, and with this object he travelled the whole country, laying the foundations of the firm's provincial business.

Before Mr. James Atkinson died, in 1853, he had invented the "White Rose" perfume which has become so famous, and although many perfumes have had their day since then the "White Rose," Mr. Barrett tells us, is as popular now as it was fifty years ago, and has an increasing sale. One of the reasons for this is that the firm stick to their original recipes, except in regard to the methods of extracting pomades, which, by the aid of modern machinery, is now done in as many weeks as it took months at that time. Mr. Edward Atkinson died in 1858. His son, James, was brought up in the business from his youth, and, at his father's death, took over the management, which, from 1869 until his death in 1895 was shared by Mr. Eugene V. Barrett.

MR. EUGENE V. BARRETT.

There is a great deal between these dates which may almost be left to the imagination, but it was left to Mr. Barrett to do in the wide world what Mr. Edward Atkinson had done in the English provinces. He has carried the firm's ramifications into every corner of the globe, so that now there are agents and representatives of the firm engaged in its interests in every chief city of the world. The export trade long ago required the establishment of a bonded factory, and as improvements in the art of soap making and the extraction of perfumes from natural sources have become known, the Atkinson firm have adopted them, so that now they have most complete steam-plant for distillation and soap-milling.

It is a peculiarity of those who do business with Royalty that they say as little about it as possible. Those who supply a casual bottle of perfume to a Prince of the Blood blazon the fact forth to the world greatly, for they are not likely to have the chance again. Suffice it to say of Messrs. Atkinson, therefore, that one has only to frequent Bond Street during the season to find the "best people" in No. 24. This indicates one direction of appreciation. In another—the world's great exhibitions—we find that the Atkinson perfumes began to score in London in 1862, then in Paris, 1867, and eight times since in great exhibitions down to Chicago, 1893. They have seventeen awards, including several highest awards and gold medals. The firm have always aimed at their goods being first-class, and nobody denies that they have succeeded. One fact in their history we should have mentioned—viz., that in 1893, following the death of James Atkinson the second, the business was, for family reasons, converted into a limited company, and under Mr. Barrett's direction it has recently taken a new lease of life, with styles of products to suit the artistic taste of the times, in the series of perfumes and toilet-specialities which we had the opportunity of describing last year. Then, too, a City showroom was opened to meet the growth of the wholesale, and now to perpetuate the Atkinson centenary a bouquet, a soap, &c., well worthy of the occasion have been invented. They are to be known as members of the Atkinson-centenary series. They have a style all their own, are new creations, and the odours are purely natural.

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Companies and Chemists.

LORD DUDLEY'S Bill to amend the Companies Acts "as amended by the Select Committee" of the House of Lords has appeared in advance of the Committee's report, though that will probably be available in a few days. The Bill as now drafted makes important proposals as to directors,

allotments, prospectuses, and mortgages, with which we need not deal at present beyond saying that it seems a wise attempt to protect the public against the wiles of promoters. But what particularly interests us just at present is that the Committee has now seen fit to incorporate the Lord Chancellor's two Bills into theirs. To show the slight verbal changes adopted we print below the effective clauses of the Lord Chancellor's Bills, and the clauses referring to chemists, doctors, &c., in the Committee's new Bill:—

THE LORD CHANCELLOR'S PHARMACY BILL.

1. A company may carry on the business and use the description of a pharmaceutical chemist or chemist and druggist if and so long only as the business is *bonâ fide* conducted by a manager or assistant being a duly registered pharmaceutical chemist or chemist and druggist, as the case may require, but, subject to this provision, anything which would be an offence under section 15 of the Pharmacy Act, 1868, if committed by an individual, shall be an offence if committed by a company.

FROM THE SELECT COMMITTEE'S COMPANIES BILL.

2. No company may carry on the business and use the description of a pharmaceutical chemist or chemist and druggist unless such business is *bonâ fide* conducted by a manager or assistant being a duly registered pharmaceutical chemist or chemist and druggist, as the case may require, and unless the name of the person so qualified is conspicuously posted in the shop or other place in which the business is carried on, but, subject to this provision, anything which would be an offence under section 15 of the Pharmacy Act, 1868, if committed by an individual, shall be an offence if committed by a company.

THE LORD CHANCELLOR'S COMPANIES (MEDICAL PROFESSION) BILL.

2. It shall be unlawful for a company under the Companies Acts, 1862 to 1898, to carry on the profession or business of a physician, surgeon, dentist, or midwife, and if any company contravenes this enactment it shall be liable on summary conviction to a fine not exceeding five pounds for every day during which the contravention happens.

FROM THE SELECT COMMITTEE'S COMPANIES BILL.

3. It shall be unlawful for a company to carry on the profession or business of a physician, surgeon, dentist, or midwife, and if any company contravenes this enactment it shall be liable, on summary conviction, to a fine not exceeding five pounds for every day during which the contravention happens.

It will be observed that the phraseology of the Pharmacy Bill clause has been slightly modified, and, that an additional condition has been drafted that the name of the qualified person conducting the company's business shall be conspicuously posted in the shop where the business is carried on; but the principle proposed is exactly the same in both Bills. We may add that clause 32 of the amending Bill provides that its conditions shall, except when otherwise expressed, apply to every company, whether formed before or after the commencement of the Act. The proposal does not now, any more than it did in the Lord Chancellor's Bill, require that a company shall have a qualified person to *bonâ fide* conduct each separate shop, and we can only assume therefore that the omission to enact this requirement is not inadvertent. The new condition, indeed, which requires that the name of the qualified person shall be conspicuously posted "in the shop *or other place* in which the business is carried on" seems to expressly contemplate that the *bonâ-fide* manager may perhaps have an office or warehouse away from the shop.

It cannot be denied that this new development is a very serious augmentation of the danger which threatens British pharmacy. Moreover, if, as we believe, the Companies Bill is intended to extend to the whole of the United Kingdom, Irish pharmacy is now equally concerned, though the clause only professes to be applied to the Pharmacy Act, 1868.

The members of the Select Committee who have thus endorsed the Lord Chancellor's policy are, besides the Lord Chancellor himself, the Earl of Leven and Melville, the Earl of Dudley, the Earl of Kimberley, Lord Belper, Lord Wolverton, Lord Revelstoke, Lord Macnaghten, Viscount Galway, Lord Mount-Stephen, Lord Shand, Lord Farrer, Lord Davey, Lord James of Hereford, and Lord Aldenham. We have yet to learn whether their decision in this respect was unanimous or not, but in any case the danger is very obvious. It is not very probable that this Bill will pass through Parliament this year. It will involve much discussion in both Houses before it is adopted, and the circumstance that many members will oppose it for various reasons will be of assistance to those who oppose a specific part; members who would otherwise care nothing for the pharmaceutical objection will be glad to use that for their own purposes. But we may remind chemists that the Bill with which these clauses have been incorporated has already passed its second reading in the House of Lords; this gives it a start, though discussion may be raised on report, and again, though it would be unusual, on the third reading.

This shows strikingly how grievous was the mistake, to adopt the expression used at the annual meeting of the Pharmaceutical Society, in not at once opposing the Bill officially in the House of Lords as soon as it was introduced. We perceive now the reason why the Lord Chancellor has so mysteriously left his Bills apparently unnoticed since they were read the first time. He was, no doubt, persuading the Select Committee, against their original intention, to deal with this subject, and he was of course able to show the members that although his Bills had been before the trade for some weeks, the statutory representatives of the trade had raised no objection to them.

Even now, in our opinion, the policy of drifting, and waiting, and hoping that there may be no need for action should be reversed. The Council of the Pharmaceutical Society have always shirked their duty when an opportunity for the display of energy in regard to this question has arisen. They ought now to press opposition to the clauses we have quoted at every stage of this Bill in both Houses; it would surely be possible to secure at least one peer who would become their advocate. Their views, at all events, ought to be somehow recorded before the Bill is agreed to in the Upper House. But the awkward thing is that before the Council dare interview a peer on the subject they must have some definite views to put before him, and these, at present it appears, no member of the Council possesses. Some there are who have intimated their heroic defiance of all legislation except on the lines of the hopeless Bill they agreed to in February. But we imagine no one would be wild enough to ask any intelligent peer to support such a measure now. Then the question arises, Shall it be permitted, in defiance of Blackburn, and in any conceivable circumstances, to consent to any compromise whatever? It looks very grand to say that we will never consent to a Bill which renders it legal for companies to carry on pharmaceutical businesses. Members of the Council are themselves directors of chemists' companies, and the contemptible tactics of suggesting that those who see in the present juncture an opportunity of securing a real gain by a little enlargement of what the Lord Chancellor proposes are played out. Chemists who have considered the matter at all see the hollowness of that pretence. We once more urge, as we and others have done on previous occasions, that the persons who *bonâ fide* conduct the chemist's and druggist's businesses owned by joint-stock companies are not the resident assistants, but the directors of those companies, and we say that chemists would gain all they can reasonably require if they could induce Parliament to accept this view, and to insist on the condition that only qualified men should be directors of such companies.

Formosan Camphor-monopoly.

Since the intimation that the Japanese Government had decided to take the Formosan camphor-industry under its own care on the first of next month, nothing has been heard about the matter here or in the East. This is not surprising; an industry cannot be revolutionised in a few short months, and the Government could not move definitely until the Formosan loan had been negotiated. Now that that has happened a ray of light comes through the darkness, or, in other words, the Government organ, the *Tainan Nichi Nichi*, has spoken. Not very definitely, it is true, but the occasion is one for vagueness, and we take the *Tainan Nichi Nichi's* utterances to be feelers. The Government would like to know what method of monopoly would be most acceptable, workable and profitable. The Japanese are not given to ask assistance if they can do a thing themselves; if there is trade to do in their territories they prefer to do it themselves; but there is a limit to their abilities, and the Formosan camphor-business appears to be beyond the limit. The Government organ states that, although various rumours regarding the monopoly are going about, no one outside the charmed circle knows what is to happen, the strictest reticence being observed by the authorities; but it suggests three methods for consideration which we take to be inspired. First, to sell the camphor produced, or definite areas of camphor-country, by public tender or auction. This method, however, the *Tainan Nichi Nichi* thinks is open to abuse, as a combination of buyers might agree to keep down the price; secondly, to sell camphor publicly at a regular fixed price, to be determined quarterly or half-yearly as agreed upon. This course also the journal thinks inadvisable, as being altogether opposed to the "acknowledged theory of economic science"; for by this method the Government would "generally be in the rear to work in harmony with the ever-changing conditions of the active market." The third and last method proposed, and energetically recommended, is to appoint a certain "big and powerful merchant or merchants," with ample experience of foreign trade, who will undertake to sell the consignments of camphor on commission on behalf of the Government, they being instructed to do the best they can on the foreign markets under the superintendence of the Formosan authorities. Though the journal believes this last method will meet with much censure and criticism from interested parties, it urges the Government to take it up forthwith, because "great things can only be accomplished by a firm self-determination, disregarding outside criticism." The general opinion in the East is that this third method is the one likely to be adopted by the Government.

Since Japan obtained possession of Formosa about 500 distilleries have been purchased by the Government from Japanese operators, which goes to prove that the interests of its own people will be conserved in preference to those of the European operators. The Parliament has also voted the sum of 1 681 434 yen for the purpose of establishing offices and for the payment of salaries of officials and employés. We also learn that the Government intends to restrict the number of trees to be cut down in any one year in Formosa, and that it will compel the planting of new ones equal in number to those destroyed. This is a very wise provision, and should also be enforced in Japan, where the number of camphor-trees is constantly decreasing and a systematic replacing of the trees is nowhere carried on. The exports of camphor from Japan in 1898 amounted to 21,609 piculs, as against 24,084 piculs in 1897 and 15,565 in 1896, while the latest reports indicate that deforestation is still proceeding. Since the Formosan monopoly has assumed definite shape, the markets, both for crude and refined, have advanced all round, and to-day Japanese camphor is quoted by importers at the high figure of 129*s*. per cwt., c.i.f., but in second hands there are sellers at less. During the past month little business has been done in crude, although refined is more active, owing to the consumptive demand both here and abroad. The market, however, will be in a disturbed condition until the Formosan business is definitely settled; and if the third proposal is the one agreed upon, we may expect that values will not appreciably diminish, for the arrangement will probably mean that the more important exporters in North and South Formosa will get the camphor-business to do, they settling prices in association with the Government. Competition in first hands will, therefore, be impossible. This is a condition which has long been foreseen; Formosan produce must pay for the administration of the island, and camphor, as one of the leading products, must pay its share. It is quite in accordance with the fitness of things, from the Japanese point of view, that American and European consumers of camphor should ultimately have to bear the charges.

"Pharmaceutical Testing."

For good or evil, the British Pharmacopœia is now a more complex book on the chemical side than it has ever been before. In it standardisation and critical testing have been advanced so that their application is practically outside the province of the man who has to attend to customers and supervise the everyday work of a pharmacy. Yet, says Mr. Proctor, "Every man should test his chemicals occasionally to see that their quality is up to the required standard." No one who knows of the existence of the Sale of Food and Drugs Act, and has respect for his good name, will deny the wisdom of this advice, but it would be unreasonable to expect the majority of pharmacists to carry out the injunction with the B.P. as their guide. Mr. Proctor recognised this when, in 1890, he wrote the "Manual of Pharmaceutical Testing," whose *apologium* was that it gave "simple instructions for the testing of the chemicals of the British Pharmacopœia, &c., with such materials and appliances as are in common use at the dispensing-counter." That the book was needed appears to be proved by the fact that we had to reprint it on two occasions, and now we have before us a new edition which brings the work into line with the British Pharmacopœia, 1898. We believe that it will be found to maintain the reputation of the first edition. In the first place it has been carefully revised. Every line of the new B.P. "characters and tests" has been critically examined, and wherever possible official complexity has been reduced to the homely terms which suit the working chemist and druggist. This is, perhaps, the feature of the "Manual" which has made it so popular, although we are inclined to place not far behind it Mr. Proctor's remarkable knowledge of commercial chemical supplies as an important factor to the user of the "Manual." Mr. Proctor has faith in the chemist's eye, and appeals to it. From experience with his own he can assure the pharmacist in respect to a large number of chemicals that if they have a certain appearance they are above suspicion or unlikely to be pure. This considerably reduces the number of articles to be tested. In the next process of sorting Mr. Proctor tells us that the commonest impurity of any chemical is so-and-so; he goes straight for the impurities without hypothesis, and if found absent the chemist may put the stock on his shelf. The exposition of this selective method by an experienced pharmacist, whose reputation for exactitude is unimpeachable, is of immense advantage to

the rank-and-file of the trade, who perforce become rusty, and may therefore overlook the significance of some of the strings of impurities which are now given in the B.P. In another direction the "Manual" has proved of much assistance to the retailer—viz, in supplying him with quantitative methods which are sufficiently accurate to distinguish the legal from the illegal chemical, yet are so simple that complicated apparatus and other resources of the well-equipped laboratory are not required for the tests. In spite of the greater complexity of the new B.P. tests the "Manual" retains its simplicity in this respect, and all new quantitative processes are represented by simple methods which can be applied at the dispensing-counter with ordinary graduated measures and the like. Mr. Proctor has amplified much of the prefatory pages, in which he so felicitously discourses on the diagnosis and symptoms of impurity and purity in medicines, and in an appendix has added a table of the neutralising equivalence of the chief acid and alkaline materials of pharmacy, which indicates whether a mixture of an acid or alkaline galenical or compound will be acid, alkaline, or otherwise when dispensed together. If, for example, syrup of squill, ammonium carbonate, and solution of morphine hydrochloride are prescribed together, two things may happen—(1) the carbonate will react with the acetic acid in the syrup, and probably neutralise it; if so, there may be (2) sufficient carbonate left to precipitate morphine. The table takes one out of the difficulty immediately—Ammon. carb. B.P. 52·3 gr. = syr. scillæ 6½ fl. oz. There is also in the appendix an illustrated article on the testing of clinical thermometers, which will enable any pharmacist to give a guarantee with the thermometers which he sells. This is a useful and timely addition.

CONFERENCE-PAPERS.

In anticipation of the meeting of the British Pharmaceutical Conference to be held at Plymouth the Hon. Secretaries have issued the "Blue-list," with forty-eight subjects that are ripe for investigation. The list will be useful to those who wish to communicate papers to the Conference, but have no subjects to work upon. Copies can be obtained from the Hon. Secretaries. The Executive Committee is to meet next week, when the Plymouth local committee will lay before the members for approval a final draft of the pleasure which is to go with the matter-of-fact pharmaceutical chemistry. There seems to be every prospect of a good meeting We may also note that the Conference is urgently in need of members, the present income being barely sufficient to meet the expenses The Year-book is given to everyone who pays the 7*s.* 6*d.* subscription. It is well worth the money.

THE ALKALI-INSPECTOR'S REPORT.

Mr. R. Forbes Carpenter's report for 1898 on the inspection under the Alkali, &c, Works Regulations Acts was published as an eightpenny Blue-book on Wednesday, and may be obtained from the Queen's printers. Mr. Carpenter does not apparently aim at rivalling his predecessor in producing popular reports Apart from statistical information the report is chiefly confined to details regarding analytical processes which have been investigated by the Chief Inspector and his assistants during the past year. These have an indirect bearing upon the work of the inspectors in controlling the escape of noxious gases, but we question if a report to be submitted to the House of Commons is the proper place for such information. Mr. Carpenter is also inclined to discuss new processes from the industrial and intrinsic points of view. Whatever he says carries weight, and it is bound to interest technologists, but what interests legislators and the public whom they represent is, How are the Acts with which Mr. Carpenter is entrusted operating for the well-being of the community? Mr. Carpenter gives figures showing escapes of hydrochloric-acid gas in grains per cubic foot, and allows them "to speak for themselves." That they can only do to experts. Some of the reports of district-inspectors are more understandable, but in future we think it would be advisable to pick out from these those points which show how the Act is operating, and where it can be strengthened. The Chief Inspector is the person most competent to do this. We hope to return to the scientific portion on an early date.

HOW MEDICAL JOURNALISTS ARGUE.

The *Medical Times* of last Saturday has an unconsciously funny criticism of what it calls "the unwarrantable—indeed, the impossible—claim which has been advanced by chemists to a monopoly of dispensing, and to which the unfortunate recent occurrence in Lancashire has been made to serve as a special lever." After noting "the opinion expressed by the General Medical Council" (which we may remark the General Medical Council has not yet expressed), that such accidents are very rare, the *Medical Times* records its "own impression" that on the whole such errors are very much more frequent in the dispensing of chemists than that of medical men. "Our own impression" is not fortified by the smallest atom of evidence, but the writer justifies it by pointing out that the danger arising from the bad writing of the prescriber is to a large extent excluded when the doctor dispenses his own medicines, and he arrives at the conclusion that the matter must be dismissed as being outside the range of practical politics. "Were our friends," adds the *Medical Times*, "to agitate for the employment of none but qualified chemists as dispensers, there might be a good deal to be said for their position." Perhaps our contemporary will be surprised to learn that this, and nothing more than this, is all that chemists have been agitating for.

CHEMISTS AND CANDIDATES.

Sir George Pilkington, the chemists' candidate, has been elected M.P. for the Southport division of Lancashire by a majority so considerable that it cannot be claimed that the pharmaceutical vote turned the scale. We learn that the new member is a qualified medical man, though not now in practice. The fact may account for the readiness with which he grasped and acceded to the appeal made to him by the deputation of chemists which waited upon him. It is fair, however, to the defeated candidate to quote from a letter which "a chemist who was present at the interview" has written to the *Southport Visitor*. Mr. Balfour, he says, asked the chairman, Mr. George Ball, to give him an assurance on the following points:—

1. That, by so doing, you do not wish to create a close corporation.
2. That you do not wish to prevent free trade in chemists' goods.
3. That you do not intend to bring about increased prices for medicines.
4. That it will improve the status of the chemist and give more protection to the public.

Mr. Geo. Ball (according to this chemist) hesitated, and although prompted to give the necessary assurance by one of the chemists present, he did not do so, but suggested that Mr. Balfour should take a couple of days to think it over. If Mr. Ball had given the assurance, the chemist is confident Mr. Balfour would have answered the question at once. The writer of the letter characterises the circular issued by the chemists' committee as misleading, and thinks that Mr. Balfour was to be commended for carefully considering the problem submitted to him and not answering like an automatic machine, "Yes, yes, yes," no matter what interests are involved or what inconvenience the public might be subjected to.

THE CHLORATE EXPLOSION.

The official inquiries held at St. Helens in regard to the tremendous explosion at the Kurtz Works on May 12 have not produced any evidence definitely explaining the cause of the fire and the resulting explosion. The only evidence in regard to the fire, which broke out in the crystallising-room containing wooden tanks for cooling chlorate, was that of a cooper, who said he was receiving casks from the trucks when two began to roll and struck against each other. As they did so, he added, a spark flew out and fell on the ground, and a large flame shot out and ran alongside the tanks. The casks, it seems, were empties from a firm of match-manufacturers, and it has been suggested that some amorphous phosphorus might have been adhering to them The chlorate itself would hardly take fire. The manager of the works, Mr. Rudge, said at the inquest, if a lighted match were dropped into a hundredweight of chlorate nothing would happen, practically speaking. The explosion occurred in an adjoining house, where 160 tons of chlorate were stored. The explosion of chlorate of potash is new to chemists, and Colonel Ford, the Government Inspector of Explosives, is now experimenting with it to see under what circumstances it can be forced into such violent molecular disturbance as to account for the disaster.

CORONERS AND THE PHARMACY ACT.

The Coroner who understands the Pharmacy Act is about as rare as the one who refrains from expounding it according to his own lights, or, rather, darkness Dr. Clegg, who presided over inquests at Boston and Spalding last week, was peculiarly confident and as wrong as he was definite in his law. At both inquests he found that poison had been sold without the name of the actual seller being on the label. "The name and address of the seller," he declared, "must be on the bottle—that is quite certain." And the good man who kept the stores at which the poisons were sold thanked the Coroner respectfully for the information, which he said he did not know before. Neither did we. And if Dr. Clegg will carefully read the seventeenth section of the Pharmacy Act, which he will find in the Register supplied to him, he will ascertain that the label has to bear the name and address of the seller, and that the seller for the purposes of that section is the person on whose behalf the sale is made.

REGISTRATION OF OPTICIANS.

In last week's *Nature* there is an appreciative article on the Spectacle-makers' examination scheme. After some comments on the remarkable absence of technical training which characterised the optical trade till recently, the article goes on to speak of the scope of the examinations which have been several times referred to in our columns The Optical Committee of the S M.C. are carefully limiting the instruction in their optical classes so as not to trench on the province of the ophthalmic surgeon. The instructors tell the students to pass on to an ophthalmic surgeon cases in which an adult has a myopia above seven dioptres, children where the *punctum proximum* is beyond 10 c m., or those persons who cannot when corrected for a simple error of refraction see 20/20 print. The committee obviously labour under great difficulty in fixing a limit of the subjects the candidate is to be instructed in—for instance, the construction of the ophthalmoscope is taught, but not its application to the eye. We do not altogether agree with this limitation, as many opticians get an appreciable amount of information on the refraction of the eye by means of the ophthalmoscope, and the condition of the fundus is sometimes a valuable guide as to the lenses a person will be able to endure. It is, however, best to err on the side of over-cautiousness, and it may serve to make medical men less suspicious of the optician, but, judging from the experiences of chemists in the matter of counter-prescribing, this is doubtful. The scheme has given an undeniable impulse to optical studies, and the desire for optical instruction is spreading, and cannot fail to be productive of good to all concerned, most of all to the public.

COOKERY RESEARCH.

The Royal Institution centenary reminds us of the eccentric genius of Count Rumford, its founder. The Institution, an offshoot of a Society for Bettering the Conditions and Increasing the Comforts of the Poor, was founded by the subscriptions from fifty-eight subscribers of fifty guineas each. With this money the managers purchased the house in Albemarle Street which has ever since remained the home of the Royal Institution. Count Rumford's conception was a sort of mechanics' institute, the objects as set forth in his proposals being the speedy and general diffusion of the knowledge of new and useful improvements and teaching of the application of scientific discoveries to the improvements of the arts and manufactures and the increase of domestic comfort and convenience. The Count held strong views of the importance of the culinary art, and it was through him that within a year a cook was engaged "for the improvement of culinary advancement," and cooking-stoves, with models of model kitchens, were a strong feature of the exhibits at the Institution. Committees were appointed for specific scientific investigations, and studied such subjects as, among others, bread, soup, stoves, and cattle-food. Another pet project of Rumford was the establishment of a dining-room where experimental dinners cooked by new methods could be tested. There were, of course, lectures on chemical and philosophical subjects, but it is interesting to observe what an influence one man's opinions had upon the trend of the work in the early days of the Institution. When, in 1802, the income of the establishment fell rather seriously, and the Count had left England, the kitchens, patent stoves, and roasters were quietly dropped, and the policy of fashionable science, which has proved so successful, was adopted, so that now, and for some years past, the meetings and discourses have become fashionable functions. The Institution has been successful also from a scientific point of view, as money thus attracted has enabled it to make costly researches which might not otherwise have been possible, and which have been of incalculable benefit to the whole scientific world.

SULPHUR IN THE SOCKS.

Some rather cheap sneers have been indulged in, first by a critic in the *British Medical Journal*, and again by a no less distinguished authority than Sir James Crichton Browne, in regard to one little line in our treatise on "Diseases and Remedies" recommending sulphur in the socks as a preventive against cholera. We were aware that this uncomplicated method of treatment was by no means unfamiliar in many parts of this country as a preventive against rheumatism and were not surprised to find it given as a possibly useful prophylactic when cholera might be prevalent. But we did not know that it had been previously recommended by a qualified medical author until the other day, when a medical reader of THE CHEMIST AND DRUGGIST kindly sent us the following extract from Dr. Hering's "Domestic Physician," 1867. Under the heading of "Asiatic Cholera" Dr. Hering writes :—

"The surest preventive is sulphur. Put half a teaspoonful of flowers of sulphur into each of your stockings and go about your business. Never go out on an empty stomach; eat no fresh bread or sour food. This is not only a preventive in cholera, but in many other epidemic diseases. Not one in the many thousands who have followed this my advice has ever been attacked with cholera."

Our correspondent adds: "If I had the choice between the

above-mentioned remedy and the nasty inoculating-serums which are in vogue among up-to-date scientists for the treatment of cholera, I know which I should prefer."

GENERAL MEDICAL COUNCIL.

There seems nothing to hope for from the General Medical Council in the way of assistance in regard to the company proposals of the Lord Chancellor. The Council seems to be very well satisfied with the Bill as it stands, and will use all its influence to get it through. It is true that no official intimation of pharmaceutical dissatisfaction has been given to the Council from the British Pharmaceutical Society, but the G.M.C.'s reply to the communication from the Irish Society, that to undertake work for chemists is outside its province, is conclusive and, we must add, reasonable. The action of the Council in regard to unqualified dispensers has likewise been strictly proper and decidedly prudent. It was not a topic which could be safely discussed in public, and if it could not be shelved altogether, the most obvious course was to refer it to a committee, where, perhaps, some formula may be devised which while it would not be too inconsistent with the Council's previous policy, will not commit it to any definite action.

A WOMAN'S OPINION OF CHEMISTS' ASSISTANTS.

Miss Frances H. Low, in the June number of the *Woman at Home*, assures women "who have the essential qualities of intelligence, accuracy, and manual dexterity," that they may take up dispensing as "a reliable and lucrative means of earning a living." Miss Low advocates the occupation principally for dispensing in hospitals and dispensaries and in the surgeries of medical men, where the pay is not high enough "to attract educated, intelligent, capable men and is consequently for the most part in the hands of persons of an inferior class." After explaining, but not quite accurately, how the qualifications are to be obtained, Miss Low states that the salaries in hospitals vary from 20*l.* or 60*l.* for resident dispensers, and from 70*l.* to 120*l.* for non-resident ones. There are also positions as chemists' assistants to be had; but a doubt is expressed whether women of refinement (which all the readers of the *Woman at Home* are assumed to be) would care about the kind of publicity entailed in this branch of work, or would find association with the average male assistant either agreeable or even endurable!

The Paris Exhibition, 1900.

THE following firms are named among the "first list" of exhibitors at the Paris Exhibition to be opened next April:—

Alkali Manufacturers' Association of Great Britain
Aspinall's Enamel (Limited)
Atkinson, J. & E. (Limited)
Avery, W. & T. (Limited)
Belfast Mineral Waters Company (Limited)
Bond's (John) Marking-ink
Bovril (Limited)
Brand & Co. (Limited)
Breidenbach & Co.
Brunner, Mond & Co. (Limited)
Burroughs, Wellcome & Co.
Clarke's Pyramid and Fairy Light Company (Limited)
Crosfield & Sons, Joseph (Limited)
Down Brothers
Field, J. C. & J. (Limited)
Fry & Sons, J. S. (Limited)
Fullers' Earth Union (Limited)
Gardner, William, & Sons
Gosnell, John, & Co.
Gossage & Co.
Grossmith, J., Son & Co.
Hicks, James J.
Howards & Sons
Jakson, John, & Co.
Jeyes' Sanitary Compounds Company (Limited)
Johnson, Matthey & Co. (Limited)
Lever Brothers (Limited)
Lorimer & Co.
Patent Borax Company (Limited)
Pears, A. & F. (Limited)
Price's Patent Candle Company (Limited)
Protene Company (Limited)
Riley Manufacturing Company (Limited)
Ross (Limited)
Schweppes (Limited)
Spratt's Patent (Limited)
Sprules, Miss Sarah
United Alkali Company (Lim.)
Vinolia Company (Limited)
Wilkinson, Heyward & Clark (Limited)

Nottingham and Notts Chemists' Association.

THE annual meeting of the Nottingham and Notts Chemists' Association was held on May 28. Mr. R. FitzHugh, J.P., presided.

ANNUAL REPORTS.

The Secretary's annual report stated that the past year had been marked by steady progress and by good feeling within the ranks of pharmacy. The report also reviewed the various meetings held during the year. With regard to educational matters a full three-term course in botany had been held, and twenty-eight students had joined the class. In the second term a class in practical dispensing was conducted by Messrs. Eberlin and Fenton. Seven students joined, the attendance and progress being good. The Association had now a roll of 51 members, 3 honorary members, and 28 associates. The report was adopted.

The Treasurer's report, which was adopted, showed that the receipts amounted to 84*l.* 7*s.*, including 30*l.* 18*s.* 6*d.*, brought forward from the previous year, while the expenditure was 73*l.* 0*s.* 3*d.*, leaving 11*l.* 6*s.* 9*d.* to be carried forward.

QUALIFIED ASSISTANTS AND MEMBERSHIP.

Mr. Eberlin proposed—

That qualified assistants in the employ of members of the Association be eligible for membership on the payment of a subscription of 2*s.* 6*d.* per annum, and have all the advantages of members, with the exception of not being eligible to sit on the Council.

After some discussion the motion was withdrawn, on the understanding that the incoming Council should take into consideration the revision of the by-laws.

COUNCIL AND OFFICERS.

The following were elected for the ensuing year:—President, Mr. R. FitzHugh, J.P.; Vice-President, Mr. R. H. Beverley; Treasurer, Mr. J. Wilford; Secretary, Mr. A. Eberlin. Council, Messrs. F. R. Sergeant, E. Gascoyne, C. A. Bolton, W. Gill, A. Middleton, A. E. Beilby, T. Wilson, and R. Widdowson.

Westminster Wisdom.

NOT YET PROPOSED.

Someone has been joking at the expense of the *Western Mercury*, a Plymouth paper, which the other day solemnly reported that: "A movement has been started in medical circles to secure from Parliament the prohibition of the practice of sending through the post free samples of patent medicines for the purpose of advertisement. It is pointed out that the practice might lead to crimes that would be very difficult to avenge. The New York murders are quoted as cases in point. It seems to have been overlooked, however, that criminals need not necessarily confine themselves to 'doctored' medicines when committing murder through the post."

A CHAIR OF COMMERCIAL EDUCATION.

Sir Howard Vincent has submitted to the Vice-President of the Committee of Council on Education a suggestion in connection with the establishment of the University of London in the Imperial Institute. He proposes the establishment of a Chair of Commercial Education, with authority to grant diplomas of knowledge in commercial science.

"IRREGULARITIES, &C."

Arising from the conviction of the brothers Chrimes, who sold tabules for curing "irregularities, &c.," Mr. Channing is asking the Home Secretary if he is to bring in a Bill "to prevent the publication of advertisements inciting to certain crimes." Mr. Channing believes such a Bill is "urgently necessary."

Reviews.

Flora of Kent: Being an Account of the Flowering-plants, Ferns, &c. With notes on the topography, geology, and meteorology, and a history of the botanical investigation of the county. By FREDERICK JANSON HANBURY, F.L.S., and EDWARD SHEARBURN MARSHALL, M.A., F.L.S. London, 1899: F. J. Hanbury, 37 Lombard Street, E.C.

THE name of Hanbury is so well known in pharmaceutical and botanical circles that any work bearing that name on its title-page is sure of a respectful reception from the most capable experts; but Frederick Janson Hanbury has made his own reputation as a conscientious and experienced botanist, and is independent of that which has been won for his family by past workers. The justification for a special study of the "Flora of Kent" is well expressed in the introduction, where the authors say "that Kent, the county nearest the Continent of Europe, and forming the south-eastern corner of Great Britain—Kent, with its varied seashore, its enormous stretch of river-bed, and its diversified geological formations—should alone among the metropolitan counties have remained so long without a systematic Flora removes all need of an apology for the present attempt to fill so important a gap in the local botanical literature of our country. But although no thorough Flora of the county as a whole has hitherto appeared, several local Floras and so many leaflets, magazine articles, and isolated records have been published that the scattered literature on its botany probably exceeds both in volume and interest what has been written concerning any other portion of the United Kingdom. This literature is especially rich in old records, which afford the earliest intimation of the occurrence of a good many native plants as British."

Though this Flora will be especially welcome to workers in the field of British botany, its interest will not be confined to them. Antiquarian notes are scattered throughout the book, and these and the occasional references to the uses of the plants mentioned appeal to a very large circle of students and to natives of the county. "Kent," say the authors, "is a county of varied and beautiful scenery, although the belt of chalk hills known as the North Downs, which runs through it from east to west, nowhere attains a greater elevation than 811 feet. The gradual northern slopes of this plateau, which in parts is as much as eight miles wide, command fine views over the marshland and the river Thames with distant glimpses of Essex and the North Sea, while from the steeper southern slopes the extensive and highly-cultivated tract of the weald, once a vast forest, and still retaining many woods and much-scattered timber, spreads out like a panorama bounded on the horizon by the Sussex hills in the western portion and by Romney Marsh and the sea in the eastern. Nearly all parts of the county are enriched by extensive woodland tracts and coppices, and by parklands surrounding many an ancient country seat. For historical and antiquarian research Kent possesses few equals, and as regards architecture, local government, the law of gavelkind, and folklore it is full of interest."

The introduction to this work occupies eighty-four pages, and comprises extended notes on the geology, meteorology, altitudes, &c., of the county, and a very interesting "Historical Summary" which we learn from the preface has been supplied by Mr. B. Daydon Jackson, Secretary of the Linnean Society. As is well known, Kent is rich in British orchids, and in reference to the ruthless destruction of rare species the following note may be quoted and emphasised:—"In gathering specimens care should be taken not to pull them, which would probably tear off the next year's tuber and destroy the plant. Mr. G. Chichester Oxenden, of Broome Park, once sent us the following couplet:—

> Orchis *cut* is orchis still,
> But orchis *plucked* is orchis *nil*."

With regard to the re-discovery in Kent of *Orchis hircina*, which has been notified in the papers during the past week or two, the above remarks especially apply, and we think it is a pity that the exact locality of such a discovery should be announced. Under the head of *Urtica pilulifera*, the Roman Nettle, which is also stated to be "very rare, perhaps extinct," the following interesting quotation is given from Parkinson:—"*Urtica Romana*. Hath beene found naturally growing time out of minde, both at the towne of Lidde by Romney, and in the streetes of the towne of Romney in Kent, where, it is recorded, Julius Cæsar landed with his souldiers and there abode for a certaine time, which it is likely was by them called Romania and corruptly there-from Romeney or Romny, and for the growing of it in that place, it is reported that the souldiers brought some of the seede and sowed it there for their use to rubbe and chafe their limbes, when through extreame cold they should be stiffe and benummed; being told before they came from home that the climate of Brittaine was so extreame cold that it was not to be endured without some friction or rubbing, to warm their bloods and to stirre up natural heat, from which time it is thought it hath continued there rising yearely of its own sowing." Every page of the book is the result of the most scrupulously careful research, and of personal investigation. It should be a model for county Floras.

An Introduction to the Study of Materia Medica: being a short account of the more important crude drugs of vegetable and animal origin. By HENRY G. GREENISH, F.I.C., F.L.S. London, 1899: J. & A. Churchill. $9\frac{1}{2}$ + 6. Pp. xxi + 511. 15*s*.

As this book differs in arrangement from any on the subject which have hitherto been published in this country, it may be useful to show the order of the sections, which are as follows:—

I. Leaves	VIII. Rhizomes	XV. Oleo-resins
II. Flowers	IX. Roots	XVI. Balsams
III. Fruits	X. Hairs, glands, &c.	XVII. Fixed and empyreumatic oils, fats, waxes, &c.
IV. Seeds	XI. Extracts and dried juices	XVIII. Animal substances
V. Herbs and entire plants	XII. Gums	
VI. Woods	XIII. Resins	
VII. Barks	XIV. Gum-resins	

Maisch, in his smaller work, adopted a classification resembling this, beginning with animals. As a concession to the time-honoured arrangement according to natural orders, Professor Greenish adds a seven-page appendix, the part used and the page on which the drug is fully treated being given. In treating each drug the English name heads the monograph, and the divisions have generally the following headings:—Sources, &c.; Description, Constituents, Uses, Adulterations or Substitutes, &c. The work is intended for students of pharmacy and medicine, but obviously the author had the former class mainly in view, for the latter could not afford to devote the time necessary to master the contents, their requirements leaning more to the therapeutical side. The book is an admirable one; it is written in excellent English, without the slightest tendency to padding or redundancy, and the language is so chosen as to bring the facts clearly to the mind of the student. Moreover, besides being interesting as a narrative, the text is made thoroughly educational by bringing out the points of distinction of each drug. Here, for example, is the summing-up of the "description" of cubebs:—

> The student should observe—
>
> (*a*) The *slender stalk*, which is not easily detached.
> (*b*) The *seed attached only by its base* to the pericarp.
> (*c*) The *characteristic odour and taste*.
> (*d*) The *reaction with sulphuric acid*.

Whereby we get a veritable "Liebig" of pharmacognosis. Another feature is the illustrations. There are 213 of them. A few are original (and they are the best); most are borrowed, but good; and we think the author might have borrowed more with advantage, a few things which should have been illustrated not being so—*e.g.*, capsicum fruits, of which only *C. annuum* is figured. Though illustration is better done than it has ever been done in a student's text-book of materia medica before, we hope the author will, in anticipation of a second edition, set about getting engravings prepared of every drug that can be illustrated either by section or otherwise. We cannot doubt that the book will become the recognised British students' manual of materia medica. Without pretending to imitate "Pharmacographia," it embodies many of the excellencies of that famous work

and has not its diffuseness. In short, there is no better book on the subject for Minor and Major students, or for those studying for the Irish Licence examination or registration as pharmacists in the British colonies.

It will be obvious to anyone acquainted with commercial materia medica (there is such a thing) that Professor Greenish has taken pains to become familiar with drugs as they exist in trade, and where they come from This is, perhaps, specially apparent to us, because there are here and there recorded in the Pharmacopœia treatise of our 1899 DIARY series of facts which also occur in the "Introduction" We may in this connection point out a few things which we believe Professor Greenish will find it advantageous to alter in succeeding editions They are chiefly matters which interest the merchant and the "post-graduate," and which detract but slightly from the value of the book as a students' manual. On p. 5 sufficient importance is not given to Ceylon and Java coca-leaves, of which many hundreds of original packages come to Europe annually, these leaves being used by cocaine-manufacturers. "Eucalyptus-leaves [globulus referred to] contain, when fresh, from 3 to 5 per cent. of volatile oil" (p. 23); but the yield rarely exceeds 1 per cent, and Schimmel gives it as 0·8 per cent. Several of the umbelliferous aromatic fruits might be more fully illustrated on the basis of the trade varieties, especially to show the different sizes of fruits going by the same name. J. C. Umney has provided the material for this. Under vanilla (p. 119) the fact should be brought out that Mexican vanilla rarely comes to this country, and that the wild plants do not yield "vanilla," but "vanillon." In describing cardamoms the author misses several points: (1) That the most abundant fruit in the English market is the Ceylon-Mysores which are not mentioned at all. (2) By writing "Ceylon (wild) cardamom" the impression is conveyed that wild cardamoms are Ceylon cardamoms or *vice versâ*; the fruit figured is most frequently spoken of as "native wild." Such fruit is bought for a special purpose—viz., to use in cake-making in Germany, where the people will have the long brown pod, and will take no other. (3) The Mangalore cardamom is not mentioned, but the figure of the Malabar cardamom on p. 121 resembles it more closely than the Malabar. The difference in size and appearance of African and West Indian kola-seeds (p. 132) is worthy of note. The author has not quite hit the varieties of tonka-beans (p. 137); Angostura and Pará are the principal commercial varieties, and some distinguish a Surinam. The Angostura and Surinam are generally "frosted," the Pará rarely so. We read on p. 146 that "the composition and properties of strophanthin are not yet accurately known." Fraser gives a provisional formula, solubility, melting-point, and reactions. On p 161 in referring to castor-seed and its oil, the author conveys the idea that Indian castor oil is not made by cold-pressure, also that it is not used medicinally, whereas much is so used, and some maintain that it is the most active. Castor oil is also made in Belgium and Hull. It might be useful to add on the same page that croton-seeds come from Ceylon and Japan as well as India. Under sandalwood (p. 206) it is stated that the oil distilled in Mysore is sold by auction: there are periodical auctions of the wood in Mysore, which is probably what the author had in mind. There are several important omissions from the cinchona article (pp 233–243). Most of the *officinalis* or Crown bark which is used in pharmacy for making galenicals is imported from South America, Huanoco and Loxa barks being most esteemed on account of their superior flavour. Latterly India has not sent us much *succirubra* bark, Ceylon being the principal source, but Ceylon is not given by the author on p. 239. Chinese rhubarb is mentioned, pp. 285–8, but not the varieties Canton and Shensi, "China or Canton rhubarb" being the description. Instead of fig. 131 from Planchon and Collin, which is not at all typical, we should have liked photographic reproductions of Canton and Shensi (sun-dried and kiln-dried, flat and round) similar to the excellent picture of English rhubarb on p 289 It is a little severe upon English workers on aconitine that their names should not be mentioned in connection therewith Under senega-root it is stated that this drug is "collected largely in Minnesota and Manitoba (Western senega), and in the North-Western of the United States (Northern senega)." This is wrong. It is some years since Professor J. U. Lloyd figured and described the two varieties. Senega does not grow west of Iowa: that which grows there and in States south and south-west of it is Western or Virginian senega—the small kind figured on p. 325. Northern senega is a chumpy, bold, keelless root, and is collected in Wisconsin, Minnesota, and Manitoba. Lloyd's figures are available, and as Northern senega comes to London, and is as good as the smaller kind, it might be figured. We notice that Professor Greenish spells Cartagena with an "h"; the correct form is Cartagena, and it would be good if Professor Greenish would give the influence of his position as a teacher to stop the erroneous style. The water-solubility of kino rarely goes above 80 per cent. and Flückiger's figure for ash (6 per cent.) is excessive. Mastich is said (p. 425) to have "a dull, dusty surface"; if so, it is due to attrition, as in museum specimens, for as imported the tears are like drops of clear straw-coloured glass. Why is African copaiba not mentioned on p. 452, or in reference to the B.P. test for it? The constituents of cod-liver oil (p. 467) are quite out of date. In connection with the monograph on spermaceti we may here call attention to the excellent account given in Bullen's "Cruise of the *Cachalot*" (Smith, Elder & Co.) of the removal of spermaceti and oil from the head of the sperm whale, which shows that spermaceti almost pure is obtained from the head.

We may also call attention to the fact that wool-fat, an important article of animal materia medica, and essential oils as a class are not treated in the volume; and it would have been better if castor oil and oil of theobroma had been included in Section XVII. In closing this review we desire to emphasise Professor Greenish's insistence upon the need of accurate observation, especially of morphology, in the study of drugs; and he gives the student every encouragement in this direction by his careful descriptions, which lose nothing in lucidity through comparative suppression of technicalities. The book is beautifully produced, and is bound in green cloth.

New Books.

Any book named in this list can be supplied post-free to any part of the world on receipt of the published price by the Publisher of THE CHEMIST AND DRUGGIST, 42 *Cannon Street, London, E.C.*

Burton, W. *The Use of Lead Compounds in Pottery, from the Potter's Point of View.* $8\frac{1}{2} \times 5\frac{1}{2}$. Pp. 84. 1*s*. (Simpkin.)

Cabot, R. C. *The Serum-diagnosis of Disease.* 8vo. 7*s*. 6*d*. (Longmans.)

Jaksch, R. v. *Clinical-diagnosis: Bacteriological, Chemical, and Microscopical Evidence of Disease.* 4th ed. Illus., partly in colours. $9\frac{1}{4} \times 6\frac{1}{4}$. Pp. 562. 24*s*. (Griffin.)

Morgan, J. J. *Tables for Quantitative Metallurgical Analysis.* For laboratory use. $8\frac{3}{4} \times 5\frac{1}{2}$. 4*s*. (C. Griffin.)

Poulenc, C. *Les Nouveautés chimiques pour* 1899. 1 vol. in-8 de 364 pages. 4f. (J.-B. Baillière et Fils.)

Wanklyn, J. A., Cooper, W. J. *Sewage Analysis: A Practical Treatise on Examination of Sewage and Effluents from Sewage.* $7\frac{1}{4} \times 4\frac{3}{4}$. Pp. 232. 7*s*. 6*d*. (Paul.)

Warren, W. J. *Handbook of Platinotype Process of Photographic Printing.* $7\frac{1}{8} \times 4\frac{7}{8}$. Pp. 90. 1*s*. net. (Iliffe.)

Year-book of Photography and Amateur's Guide for 1899. Illus. Ed. by E. J. Wall. $7\frac{1}{4} \times 4\frac{3}{4}$. Pp. 364. 1*s*. net. (*Photographic News* Office.)

LIMED ALTHÆA is not uncommon, the root being treated with lime to improve its appearance. This may give astonishing results in some cases, and it is well to test the root for lime when it looks suspiciously good.

EQUINE AND BOVINE OPHTHALMIA is prevalent in South Australia, and Mr. Valentine, Chief Inspector of Stock, gives the following cure for it:—"Make a wash with 4 oz. veterinary opium in 1 quart of rain-water (some spirits in the rain-water will improve it), and wash the eyes of the animals twice a day for a week. If not quite well, then wash the eyes once a day till recovery is complete." See also "Veterinary Counter-practice."—*Chemist and Druggist of Australasia.*

A Stranger Within our Gates.

It requires these days of Anglo-Saxon fervour to realise that the crimson-leather chairs of a St. James's Club are a natural environment for the head of a great American house. It was in the far corner of the smoking-room there that we met the other evening Mr. William M. Warren, the general manager of Messrs. Parke, Davis & Co.'s business. This is his first visit to London, but he seemed quite at home in the West-end club, and did not take long to lead on the conversation in a direction which showed that he had come to learn what British pharmacy is, how it is conducted, and what are the relations between medical practitioners and pharmacists. There was much that he had to be told about our pharmacy laws, our trade-associations, the P.A.T.A., medical societies, the Medicine-stamp Act, the use of alcohol in the manufacture of galenicals and chemicals; and the proceedings had not gone far before that hard nut, "What do you think of the future of quinine?" was put forth as a likely thing for a Chemist and Druggist representative to crack.

Mr. Warren is a young man to hold so responsible a position. When Mr. Davis retired from the firm two and a half years ago the directors promptly appointed Mr. Warren to succeed him, partly because he was intimate with every

Mr. William M. Warren.

department of it from working experience, chiefly because he is a broad-minded business man and a splendid organiser. The business grows, which is the justification for the appointment. One of the first things that was done under Mr. Warren's management was to increase the staff of travellers by thirty—engaged straight off the reel, so to speak. The firm now have 130 travellers in North America, about seventy more in other parts of the world, and their salary account includes the names of 2,000 individuals or thereabouts.

It is pretty well known that Messrs. Parke, Davis & Co. have always been eager to promote pharmacological research. Rusby's work in materia medica and Lyons's in standardisation stand to-day as records of work done nearly twenty years ago. How stands such work to-day? "Still proceeding," was Mr. Warren's reply. "Our botanical department is kept up to the old level, our pharmaceutical research laboratories have been extended, and the biological and physiological laboratories have been added in Detroit. We hope for much from these. We have thirty workers in these new laboratories—yes, medical graduates. We have 150 horses in the serum department, thousands of guinea-pigs, goats, and other animals to work upon; for we make a point of testing physiologically those things which we cannot assay chemically." The passion for research appears to be strong in Detroit. Messrs. Parke, Davis & Co. have endowed three chairs in Ann Arbor University, and keep them going with problems to solve; they pay retaining-fees to a number of medical professors in the United States, in order that they may obtain prompt information regarding new departures in medical treatment, and three professors of chemistry and pharmacy in Germany are similarly retained by them. This and much else, we gathered from Mr. Warren's conversation, is done mainly that they may be in readiness for any departure from the old lines of treatment. The production of glycerinated vaccine-lymph is now an important part of their business; in fact, the buildings devoted to animals occupy a block as large as the neighbouring pharmaceutical factory, which previously was amongst the largest in the world. The reiterated quinine question took the conversation back to the prosaic in pharmaceuticals. The consumption of quinine sulphate in the United States goes on increasing. Most of it is sold to the public in the form of tablets, pills, capsules, and quinine liquids, and about three-fourths in tablets and pills. Mr. Warren tells us that tablet taking is still growing in America. Machines have recently been invented by his firm which make tablets at the rate of 520 per minute. They literally rain tablets, accurate and finished as nicely as those produced by machines which make one tablet at a time. Although tablets are going strong the consumption of pills does not decrease, and the same may be said about established liquid galenicals. Indeed, it is as true of the United States as of the United Kingdom that the output of medicines of all kinds is steadily increasing. Mr. Warren attributes this mainly to the greater elegance and reliability of modern physic, as well as to the disposition to apply special remedies for particular symptoms.

Whether Mr. Warren's visit to London means new enterprise here need not be discussed. He frankly says that he has come to learn English methods, and has made the acquaintance of some of our best retail pharmacies, and has penetrated into the mysteries of Mincing Lane during the few days he has been here. After he has seen London he will visit France and Germany. We ought to state that Mr. Warren assured us that the recent report about his firm combining with another is entirely without foundation.

The Wholesale Druggists' Championship Cup.

We are indebted to Messrs. Mappin & Webb for the photograph from which the accompanying illustration of

the cricket-championship cup was obtained. The cup, which is a handsome specimen of the silversmith's art stands 17 inches high.

The Article Club's Exhibition.

IT has been difficult up to the present to take the Article Club quite seriously. By means of a good deal of skilful, and quite legitimate, wire-pulling, men of some eminence—and particularly men with titles to their names—have been induced to take part in its dinners and in the discussions which have followed these; and the discussions have been brought before the public by the daily papers, so that the Article Club has come to be regarded as some sort of a British institution. "Conceived light-heartedly by its founder and present Hon. Secretary" (as we learn from the introduction to the "Exhibition Catalogue" of the Club), something more than a suspicion of burlesque was imported into it by the said founder living and moving under the fantastic title of Mr. Lesser Columbus. The qualification for membership of the Article Club, we are coolly told by its advocate, was that this Mr. Lesser Columbus should have written one of his "elaborately illustrated articles" about the firm or business of the person to be admitted. In addition, persons distinguished by social position, or by eminence in the spheres of diplomacy, arms, literature, art, or science, have been brought within the fold, "and so the Club has gradually become representative of the Empire," as the editor of its "Exhibition Catalogue" modestly claims, and "could pay the National Debt three times over." We cannot but admire the organising-skill which has brought together the firms represented at the Article Club's Industrial Exhibition, opened on Tuesday last at the Crystal Palace by their Royal Highnesses the Duke and Duchess of Connaught. Mr. Lesser Columbus, who now appears as Mr. Lawrence Cowen, looked supremely happy as, with Lord Suffield (the President), he conducted the Royal party round the exhibition which he had got together. A lavish luncheon followed the ceremony.

The exhibition, though not a large one, is interesting, and effectively displayed A principle of the Article Club is to admit only one firm as representing any particular industry. This, of course, destroys anything like competition, and it may be modified in the future, when the round of the possible trades has been made. There are in all some ninety exhibitors, and as most of them seem to have entered into the business with spirit a very fair show is the result. It occupies nearly half the nave of the Palace, the other half being devoted to a dog-show, with the great transept dividing the two.

Among the exhibits with which chemists are concerned we find the Hunyadi Janos and the Kronthal waters. These are both natural mineral waters, but there certainly cannot be said to be competition between the two. One is known to the world as a medicinal water, whilst the other is principally a bright table-water. There are, however, medicinal Kronthal waters, one being an extra saline water for gouty cases, and the other an iron-water useful in anæmia. The BOVRIL COMPANY have a well-situated corner-stand, and what astonishes some visitors is the large variety of articles besides the one of the name *rôle* this company now produces. Besides invalid-Bovril, which is only sold by chemists, there are a Bovril-wine and Bovril-biscuits; there are Bovril meat-juice and Bovril beef-jelly; there are sauces, celery-salt, and Nepaul condiment for curries. Vimbos is now added, and the company are now making more prominent the preparations of the Liquor Carnis Company, which they acquired two years ago, especially Virol, the marrow-preparation which is recommended as a substitute for cod-liver oil for children. Vimbos is, of course, a Bovril property. The UNITED ALKALI COMPANY show a selection of samples of their chemicals, and NEWTON, CHAMBERS & CO. present all the materials and products which lead up to Izal, together with the many combinations, such as soaps, tooth-powder, lint, embrocation, gauze, and veterinary preparations into which Izal has been persuaded to enter.

Messrs. FASSETT & JOHNSON show specimens of the several American products for which they are agents in this country, including Diamond dyes, California syrup of figs, Murray & Lanman's Florida water, and Seabury & Johnson's plasters and surgical dressings.

Much attention is attracted to the display of essences and flavours which is made in the saloon of W. J. BUSH & CO. (LIMITED). The large vases of such products as coumarin, heliotropin, &c., with the many essences for mineral waters, for liqueurs, and for perfumery, which the public do not often get a chance of seeing, all shown in large bulk and uncrowded, renders this one of the most striking of the exhibits.

GOODALL, BACKHOUSE & CO, of Leeds, bring Yorkshire relish and their many household specialities to the front; the PATENT BORAX COMPANY illustrate the manifold uses of the article which it is their mission to popularise; SPRATT'S PATENT have a collection of their dog and poultry foods and medicines (and it may be mentioned that they are advertised from end to end of the adjoining dog-exhibition): J. DEFRIES & SONS (LIMITED) show all varieties of the Pasteur (Chamberland) filter; and MELLIN'S FOOD, the CROWN PERFUMERY COMPANY, and J. & J. COLMAN may also be named as exhibitors of articles which chemists deal in.

The catalogue is so taken up with its eulogies of the Article Club, its founder, and its members, that any announcement as to the period during which the exhibition will be on view seems to have been crowded out. All we know is that it is advertised as "now open."

The New Cocaine-test.

BY E. MERCK.

IN the English paper, THE CHEMIST AND DRUGGIST, of April 15, 1899, Dr. G. L Schaeffer describes a new test for determining the presence of inferior alkaloids in cocaine hydrochloride which are resistant to permanganate. This rests upon the greater solubility of the cocaine chromate in acidulated water (1 in 500), the other alkaloids under the same conditions being soluble 1 in 5,000 [Mr. Merck then describes the test, and adds]:—I have determined the extraordinary fact that the concentration of the hydrochloric acid plays the chief part in this test. A trial with 10 per cent. of acid gave a precipitate, but with 7 5 per cent. the solution remained quite clear, whilst another sample which was satisfactory with 10 per cent. of acid precipitated with 12 5 per cent.

I would also point out that the age of the 3-per-cent, chromic-acid solution must be taken into consideration. After twenty-four to forty-eight hours' standing this will produce a precipitate in a cocaine-hydrochloride solution, which with the freshly-prepared acid solution remains quite clear. The best criterion for the absence of inferior alkaloids resistant to permanganate remains, in spite of the objections of Dr. Gunther, the McLagan test. Dr. Gunther maintains (1) That the crystallised precipitate by the McLagan test can be produced by methylcocaine, discovered by him; and (2) that pure cocaine hydrochloride cannot give the McLagan test, because the solubility-coefficient of the cocaine base is too great in water (1 in 704) to produce a precipitate under the conditions of solubility required by this test—viz, 1 in 1,100. To that I would reply with the following facts:—12 grammes of cocaine hydrochloride (Merck's) was dissolved in water, as prescribed by McLagan, and decomposed with ammonia. The crystallised precipitate, amounting to about 50 per cent. of the theoretically free base, was filtered off, while the cocaine dissolved in water was recovered by shaking out with ether. Both portions were examined and found to show no difference in their melting-points. They were reconverted into hydrochloride, about 4 grammes of pure salt being obtained from each. If the Gunther view was correct, the cocaine hydrochloride obtained from the ether-washings would not have agreed with that which crystallised out, as the latter is said to contain methylcocaine; moreover, the latter would give the McLagan precipitation more abundantly than the former. In reality the opposite was the case, as the latter preparation showed the crystalline separation in about 30 seconds, whilst with the first trial about 70 seconds was necessary. I also maintain that Dr. Gunther is mistaken in regard to his solubilities. Niemann determined the solubility-coefficient of free cocaine in water to be 1 in 704, which figure was confirmed by Gunther. But in 1885 Paul drew attention to the fact

that this number was probably too high, on account of the easy decomposition of the cocaine in water. The solubility should be 1 in 1,300 In my trials for the solubility I use cocaine in impalpable powder, and the average of two critical experiments gave the following results:—

For the apparent coefficient of solubility ...	1 in 1,340
" " true " " " ...	1 in 2,590

The result which I obtained with the 12 grammes of cocaine hydrochloride prescribed by the McLagan trial agrees with these figures.—*Pharmaceutische Zeitung.*

Personalities.

Mr. James Toogood, of Messrs. W. Toogood & Co., druggists' sundriesmen, is visiting the United States.

Mr. Thomas W. Curtis, chemist and druggist, Holbeach, has been re-elected a member of the School Board.

Mr. T. A Matthews, chemist and druggist, has been appointed Chairman of the Ross Urban District Council.

Mr. W. Adams, chemist, 191 Dudley Road, has been elected a member of the Birmingham Board of Guardians.

Mr. J. L MacGregor has resigned the managership of the Kandy branch of the Colombo Apothecaries' Company.

Mr. A. L. Taylor, pharmaceutical chemist, late assistant dispenser at St. Bartholomew's, has been appointed dispenser at St. Saviour's Union Infirmary, Champion Hill, S.E.

Professor J. Norman Collie, F.R.S., of the School of Pharmacy, has a twenty-six page paper on "Climbing the Canadian Rocky Mountains" in the *Alpine Journal* for May.

Mr. W. H. E Thornthwaite, Master of the Spectacle makers' Company, is to be presented with a telescope as an acknowledgment of his services in connection with the examination scheme. Dr. Maw is the treasurer of the fund, the subscription-list of which has just been opened.

Mr. Heanley, jun., son of Mr. M. Heanley, pharmaceutical chemist, Peterborough, met with a somewhat serious accident near Barnack on May 18. He was thrown from his bicycle through colliding with a doctor's carriage, and was rendered unconscious for some time, but sufficiently recovered to be removed home.

A "Presentation Dinner" was given on May 30, at the Hotel Cecil, to Lieut.-Colonel and Sheriff Probyn. The Lord Mayor presided. The dinner was given in recognition of the esteem in which Lieut.-Colonel and Sheriff Probyn is held, and of the public work he has performed. Some months ago an executive committee was formed, and when Colonel Probyn was made Sheriff of the City of London he was presented with his chain of office, and it was also decided to present him with a portrait of himself. Mr. Seymour Lucas was commissioned to paint it, and at the dinner on Tuesday the presentation was made by the Lord Mayor, who referred in warm terms to the admirable manner in which Lieut.-Colonel and Sheriff Probyn had discharged his duties as a member of the London County Council and as Sheriff of the City of London. Their distinguished guest, he said, had been a very active member of the Volunteer force for over a quarter of a century, twenty-three years of which were served with the Queen's Westminsters, from which he had recently retired with the Volunteer Decoration and the rank of lieutenant-colonel. For twenty-five years he had been a member of the Vestry of St. George's, Hanover Square; he had represented Westminster on the School Board; while he had also done excellent work on the London County Council, of which he had been a member since its formation. In scholastic matters also their guest was well versed, and he had taken a great interest in the Masonic School for Boys and Girls. He (the Lord Mayor) hoped the City of London would ever have such able sheriffs as Lieut.-Colonel Probyn. Sheriff Probyn, in reply, expressed his deepest gratitude for the presentation.

Correspondence.

In writing letters for publication correspondents should adopt a concise, but not abbreviated, style They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

Notice to Correspondents.

Eucalyptus Oil.

Sir,—The letter from Messrs. Baker and Smith in your issue of May 27 emphasises the grave mistake made by the B.P. compilers in omitting a method for the estimation of eucalyptol in eucalyptus oil. This omission is inexplicable, since the phosphoric-acid process, which has been in use by analysts for over four years, gives results certainly correct to within 2 or 3 per cent. Messrs. Baker and Smith, having distilled oils from some new species of eucalyptus, which oils have a lower sp. gr. than 0 910, suggest that the B P. limit should be lowered to 0 905. This would not be advisable, unless a definite percentage of eucalyptol were also demanded, because of the great facility it would give for increased adulteration. During the past few months I have purchased several samples of eucalyptus oil from chemists, which had evidently been carefully prepared to pass the B.P. characters and tests. The following is an example: Sp. gr., 0·9101; rotation, + 9° 44′; eucalyptol, 39 6 per cent.; phellandrene absent. The sp. gr. is the chief check on admixture with terpenes, and, as I have previously shown that 15 per cent of eucalyptol will give the B.P. reaction for that body, it will be easily seen that if the sp. gr. were reduced to 0 905 much greater adulteration might be practised. In a long experience I have only met with one oil which, having a high percentage of eucalyptol, had a sp. gr. lower than 0 910; hence the oils mentioned by Baker and Smith are probably not produced on a commercial scale, but have a scientific interest only. The oils offered in the London market fall into two classes:—

(1) Those which contain from 50 to 60 per cent. of eucalyptol, and easily pass the B.P. tests, including sp. gr.; and

(2) Those, commonly called "amygdalina," which fail in all the official requirements, and contain little or no eucalyptol.

It is very desirable that dealers should state not only that their eucalyptus oil is B P., but also guarantee the percentage of eucalyptol. Only in this way can chemists judge of the relative value of the oil. Since, by lowering the sp. gr., adulteration would be rendered easier; moreover, as very little good oil is excluded by the present test, I think any alteration would be a mistake, unless at the same time the presence of, say, 55 per cent. of eucalyptol were required.

Yours truly,

138 Leadenhall Street, E.C., Edward Ockenden.
May 30.

"Diseases and Remedies."

Sir,—Sir J. Crichton Browne tries to break a lance with the *C. & D.* anent cancer. If we, as chemists, do not know all about that tremendous disease, whose fault is it but that of the physicians, who ought, long ere this, to have described it fully? But what shall be said of those learned in diseases and lesions who have described and given barbarous means of cure for a disease which never has been and never can be—I mean "ingrowing toe-nail"? It is not that, but overgrowing flesh. Let the surgeon discard his scraping-scalpel, lift up the flap of flesh, wash with water, and gently touch the under surface with argent. nit. twice, at the interval of a day, and, presto, the thing is gone. So much for the know-alls of the profession. We chemists and druggists are the *bêtes noires* of doctors, coroners, and newspaper editors, and, consequently, often are very Hard-pushed. (23 46.)
May 30.

Sir,—As to Sir J. Crichton Browne's remarks about the "nature of cancer being understood," surely the whole article

should be read to gather the exact significance of that statement. Much of what is written under the head of cancer will be found in a pamphlet written by Mr. John Milton, senior surgeon of the St. John's Hospital for Skin-diseases, who strongly believes in the close relationship between tubercle, syphilis, and cancer. Yours faithfully,

May 30. MEDICAL STUDENT. (23/44)

Concerning Secret Commissions.

SIR,—The British Medical Association has lately been seized with a fine frenzy about the secret commissions which some doctors are alleged to receive, and has declared that any medical man accepting such should be drummed out of its ranks.

Now, every chemist has hitherto been subjected to an intolerable grievance, which this recent wave of righteousness may be utilised to put an end to.

Our customers tell us occasionally that, although they wish to patronise us, their medical attendant wishes his prescription to be brought to X, who, he says, keeps fresher drugs; or to Y, who is sure not to substitute; or to Z & Co.'s (Limited), who will be sure to do it cheaper. For this we had no remedy, for to expostulate with the offending medico was to fill one's belly with the east wind But now the *à priori* assumption is that if a doctor insists on having his prescription brought to a certain chemist or drug-stores he must be receiving some secret commission, direct or indirect, in money, in goods, or merely in mercenary recommendations Hence, any chemist so aggrieved should write to the local Secretary of the British Medical Association, or to the General Secretary in London, complaining of the conduct of the practitioner, and stating, when he thinks so, that it amounts to an infraction of the rules of membership. It is obvious that if the Secretary merely writes to the member for an explanation it is calculated to have a deterrent effect; for, although it is no great honour to be a member of the Association, as some two-thirds of all doctors are, still to be expelled is to lose caste considerably.

Yours truly,

A MEMBER OF THE PHARMACEUTICAL

May 28. SOCIETY OF IRELAND

The P.A.T.A.—A Dissatisfied Proprietor.

Mr. Wm. Cowan, of Glasgow, the inventor and maker of Cowan's vaccination-shields, sends us the following, which he says is a copy of a letter he sent to the P.A.T.A. on May 23:—"Gentlemen,—My shield-trade has dropped off very much since I joined the P.A.T.A. Will you kindly take my name and goods off your list, as I have found no benefit by being a member, and oblige?"

The Council-election.

SIR,—Kindly permit me, through the *C. & D.*, to thank those gentlemen who recorded their votes in my favour at the recent election of Council. Although unsuccessful, I trust that this primary effort of chemists' assistants seeking direct representation on the Council will act as a stimulus to our future efforts in the accomplishment of this desideratum.

Yours faithfully,

R. E. WRIGHT.

Hampden House, King's Cross, N.W., May 31.

Miscellaneous Inquiries.

Notice to Querists. *We reply to subscribers and their employés only upon subjects of interest to other readers generally. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and it must be distinctly labelled Queries are not replied to by post, and those sent anonymously are disregarded.*

259/71. *Digitalis.*—**Exophthalmic Goitre.**—There is no book devoted solely to this disease, but information about it is contained in most text-books on diseases of the eye. The symptoms of Graves's disease, as it is more often called, are disturbance of the heart's action, protrusion of the eyeball, and enlargement of the thyroid gland. It is the association of the latter two symptoms which gives the affection the name exophthalmic goitre. The treatment consists of mental and bodily rest, change of air and surroundings, nutritive food, iron, quinine, and heart and blood-vessel tonics. The eye is locally treated with boric-acid lotions, and surgical interference may be indicated.

259/21. *G. D.*—**Books on the Manufacture of Heavy Petroleum Oils.**—The subject is included in Redwood and Holloway's "Petroleum" (2 vols., Griffin), where the methods of manufacture and purification are given in some detail. A smaller work, Iltyd J. Redwood's "Practical Treatise on Mineral Oils and their By-products," treats also, among other subjects, of the preparation of lubricating-oils from shale. There is no book solely devoted to the subject.

257/59. *Glaze* sends a recipe for **Composition for Glazing Tiles**, consisting of carbonate of potash, carbonate of soda, silica, saltpetre, red-lead, binoxide of tin, arsenic, and kaolin, with the complaint that it runs whilst fusing, and also "crazes" when cold. Both the running and production of fine cracks in the finished glaze are due to an excess of the fluxing-agent (red-lead) employed. The remedy is to reduce the quantity of lead, without altering the other ingredients of the formula. This will necessitate the employment of a higher temperature for glazing. The quality of the silica should also be looked to, as there may be too large a percentage of impurities present.

252/73. *Brickmaker.*—The **Colour of Bricks** depends on the composition of the clay, the character of the added ingredients, the temperature at which they are burnt, and the amount of air admitted to the kiln. The depth of colour of the bricks is influenced by the quantity of iron oxide present, but lime in small quantity modifies the red colour to a cream, while larger quantities cause a brown colour. Magnesium compounds in the clay modify the red colour to yellow. In the case you mention, where the outside of the brick is blanched, it is due to the action of gases given off in the final stage of burning. A clay giving such results is not a suitable one for making red bricks.

4/50. *Spes.*—The old milk of sulphur is the proper sulphur to use in making **Hair-restorers**. The precipitated sulphur, which the Pharmacopœia now calls milk of sulphur, does not mix well with water, unless first rubbed down with a little spirit. Thirty years ago THE CHEMIST AND DRUGGIST published analyses of the hair-restorers popular then, which showed that some makers used pure precipitated sulphur and some the calcareous variety.

259/50. *T. G.*—The reason why the use of the yellow heavy oil of petroleum is recommended in "Pharmaceutical Formulas" in preference to the white oil in making petroleum-emulsion is because many of the bleached oils contain traces of the bleaching-agents (or sulphonic derivatives), which after a while by decomposition give a very disagreeable smell. Samples of white oil free from this objection are, however, to be obtained, and, of course, answer the purpose perfectly.

1/37. *Sauce.*—Formulas for imitations of **Worcester Sauce** were published in the *C. & D.*, March 11, 1899, page 430, and March 12, 1898, page 456.

259/5. *H. A. P.*—Glycerin. ac. borici is perfectly colourless when made from pure ingredients.

257/13. *Wines.*—Bismarck-brown is the colour you are alluding to. It is much used in solution for colouring spirits and soups.

257/70. *Spes.*—For Major field-botany you will find Hayward's "Botanist's Pocket-book" hard to beat. Bentham's "British Flora" is almost indispensable for reference.

239/4 *Jack.*—The **Mixture for Ordinary Influenza** contains in each tablespoonful nearly 10 gr. of salicylate of sodium, to which no doubt it owes its "magic properties." Chloroform-water is used as the solvent, and syrup of orange-peel as the flavouring agent.

5/61. *A. M.*—Your Sausage-seasoning has approximately this composition—

Cayenne pepper	1 oz.
Cumin	1 oz.
Cassia	1 oz.
Nutmeg	2 oz.
Pimento	6 oz.
Black pepper...	8 oz.
Salt	8 oz.

Mix.

5/60. *Vivum.*—**Window-cleaning Paste.**—This consists of kieselguhr made into a soft paste with a mixture of equal parts of glycerin and water, and oil of citronella added as a perfume.

259/57. *Agriculture.*—The powder which you enclose for use with Strawson's charlock-destroyer is sulphate of copper only.

4/13. *Senex.*—**Powder for Cholera in Poultry.**—This consists of—

Powdered asafetida	1 oz.
Armenian bole	1 oz.
Chlorate of potassium	14 oz.

Mix.

A teaspoonful in the food of twenty fowls.

258/7. *Hydrargyrum.*—The **Headache-powder** you send appears to be phenacetin.

256/14. *Tokio.*—**(1) The Liquid Used in Gold Paint** is either benzine in which a little resin has been dissolved, or a mixture of gold-size and spirit. **(2) Peppermint-cordial:**—

Essence of peppermint (1 in 8) ...	1 oz.
Sugar	6 lbs.
Water	q.s.

Mix the essence with 1 quart of water and filter bright. Add the filtrate to ½ gal. of water and dissolve in it the sugar. Strain, and make up the measure to 1 gal.

(3) Gingerette Cordial is made in a similar way, using in place of the peppermint—

Soluble essence of ginger	2 oz.
Tincture of lemon	2 oz.
Conc. infusion of cloves	2 dr.
Burnt sugar	2 dr.
Citric acid	½ oz.

254/7. *Enterprise.*—**(1)** Rum affected with "stinking" bacteria is past reclamation. **(2)** We have not a formula for brewing ale or porter without malt

6/64. *Gelatine.*—In making jelly squares the jelly is poured upon a slate table with edges which can be regulated according to the depth of the squares. The table is greased as for boilings.

6/70. *Solutio.*—**One-solution Developer**—See *C. & D.*, March 25, 1899, page 510; February 11, 1899, page 262; and October 29, 1898, page 722.

1/68. *C. T. S.*—A flash-light powder made of nitre, sulphur, and orpiment would, besides being inferior to magnesium-powder, be too dangerous for general use on account of the poisonous fumes it would give off on combustion.

6/43. *Chemicus.*—The addition of shellac in the proportion of 2 oz. to the pint of leather-reviver will cause it to give a glossy surface when applied to leather. We failed to detect shellac or other gums in the sample you sent us.

7/36. *S. J.*—**Sterilising Milk** in large quantities.—This is best done by bringing the milk to the boil by means of steam-heat and maintaining the temperature for fifteen minutes, and afterwards running the milk into sterilised tin cans or bottles. The cans must be quite filled and hermetically sealed soon after the hot milk is run in. In some works the sterilising is done in the bottles or cans in which the milk is to be sold.

22/9. *Orientalist* (Madras). — **Skin-pill.** — The "best safest, and most reliable" pill is one containing from ⅛ gr. to ¼ gr. of calcium sulphide. The sulphide should be rubbed down with sugar of milk and liquorice-powder, and massed with glycerin of tragacanth. The pills are to be pearl-coated. The dose is from one to four pills daily, according to the strength and requirements.

5/40. *Pollen.*—**Soda-wood Pulp** is wood pulp in the disintegration of which caustic soda has been used. It is used for paper-making, and would be obtained from paper-mills.

Information Supplied.

Sticking Labels on Tin.—*Mr. D. S. C. Reid* (Glasgow) reminds us that a formula of his which was published in the *C. & D.*, January 4, 1893, is excellent. We repeat it for the benefit of recent inquirers:—

Mucilage of tragacanth	℥x.
Honey	℥x.
Wheaten flour	℥j.

Mix.

First damp the labels, then apply the mucilage, and set to dry, but not in the sun or a hot place.

Slake-varnish. — 23/19. *W. C.* supplies the following formula from his recipe-book:—

Gum benzoin...	5½ oz.
Gum sandarac	2 oz.
Spirit	20 oz.

Dissolve, decant, and filter.

Mr. D. S. C. Reid (Glasgow) supplies the following:—

Gum. benzoin.	lb. iv.
Spirit....	Cong. j.

Solve.

Information Wanted.

The Editor will be obliged for replies to the following from any who can furnish the information.

22/26. Abernethy's corn-plasters: where obtainable?

19/36. Who publishes "Therapeutic Notes on New Remedies"?

18/34. What is syr. filiadi, ordered in the following prescription?—

Ac. nit. hyd. dil.	♏j.
Syr. filiadi	℥j.
Syr. phosph. co.	℥j.
Aq. ad...	℥vj.

M. ℥ss. t.d.s.

An International Congress of Tuberculosis is being held in Berlin, with the full authority of the German Emperor and his Government. Mr. Malcolm Morris F.R.C.S., of London, and Sir T. Grainger Stewart, M.D., of Edinburgh, are amongst the active members. The Emperor received the members of the Congress last Sunday, and in the course of his speech, he strongly recommended the more general use of soap and water, it is reported by the *Daily Telegraph* correspondent that he made special reference to Pears's soap.

A Corner in Ammonia Sulphate.—The Holborn Guardians make their own gas at the Workhouse and have ammonia sulphate to sell, which Messrs. H. Wallace & Co., 5 Fenchurch Street, E.C., offered to buy at 10*l.* per ton net. When the matter came before the Board on Wednesday, Mr. Geo. Eade (a chemist) thought that the committee should have made inquiries before selling at such a cheap rate. Sulphate of ammonia was worth a good deal more than 10*l.* per ton at the moment, and was going up in value. It was worth at least 13*l.* per ton, and would increase, because, in his opinion, there was going to be a corner in the article. He suggested that it should be ascertained if the bargain had been settled, and, if not, to decline the offer. This the Board adopted.

Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: June 1.

IN the drug and chemical markets a quiet but steady feeling prevails. The distinctive feature of the week has been the advance in citric acid by makers, which has led to a good business in second hands. Quinine has improved slightly, and a moderate business has been done in second hands. Crude camphor and all essential oils, with the exception of American peppermint, are quiet. Buyers of drugs are awaiting the auctions to be held next week, but it is not expected that the offerings will be much heavier than usual. The following are the principal movements of the week:—

Higher	Firmer	Easier	Lower
Acid, citric Blue-flag root Canary-seed Cinnamon Oil, linseed Oil, thyme Pepper (Sing. white)	Caraway-seed Gum copal Gum tragacanth Jalap Oil, cassia Oil, orange Oil, peppermint Insect-flowers Oil, cod-liver Oil, rape	Ammonia sulphate Oil, turpentine Soy	Cannabis indica Shellac Soda nitrate

The following are among the pricipal arrivals of drugs from May 25 to 31, both inclusive:—

Aconite-root, 7; belladonna-root, 12; benzoin, 19; buchu, 66; camphor (Jap.), 285; camphor oil, 1; cardamoms, 86: castor oil (Ital.) 55, (Belg.) 28; chamomiles, 14; cinchona (Ceylon) 48, (E.I.) 452; cocaine (crude), 5; citronella oil, 3; cod-liver oil, 234; cocculus indicus, 54; galls, 22, (Jap.) 44; gamboge, 53; gentian, 16; honey (Fr.) 28, (Chil) 591; insect-powder, 90; iodine, 36; ipecacuanha (Cart.), 12; jalap, 33; lemon-juice, 40; opium, 125; orris, 13; quicksilver, 5,000; rhubarb, 35; sandalwood, 37; sarsaparilla, 46; senna, 7; soy, 394; tamarinds, 21; wax, bees', 187.

United States Imports.

In the table printed on page 838 of our issue of May 20 some of the figures regarding gambier, shellac, liquorice, and opium were transposed. We now give the correct figures:—

	1897 lbs.	1898 lbs.
Gambier	39,162,563 ...	39,593,883
Shellac	7,417,948 ...	7,836,525
Liquorice-root	59,619,047 ...	85,069,737
Opium, crude	757,384 ...	—
Opium, crude	*29,303 ...	*415,317
Opium, prepared for smoking	*131,409 ...	*119,757

The figures marked * represent amounts upon which duty was paid.

American Peppermint-crop.

With regard to the coming peppermint-crop in the United States Messrs. McKesson & Robbins, of New York, report that owing to low prices for oil, growers have turned their lands to better advantage by planting them with such things as beets, celery, &c., which are likely to prove more remunerative. Many have allowed the mint to stand, but have not set out any new roots this spring, the consequence being that the oil which the old plants will produce will be of a very inferior quality, of a rank, weedy flavour, and will be unfit for use as prime oil. Thus it is expected and hoped by dealers that this year's crop will fall far below the quantity produced last year, and this being the case it will necessarily follow that holders will become firmer in their ideas. A brisk speculation in HGH took place during the past month, and Messrs. Hotchkiss disposed of a large number of cases at a price which seemed ridiculously low.

Bulgarian Rose-crop.

Following up his letter of last week our Kezanlik correspondent writes on May 25 as follows:—"The danger apprehended from the late excessive heat has been averted, as during the last two days we have had copious rains throughout the entire rose-districts, which means that we shall have a substantial crop of the very richest quality. In the place of the former hot and dry weather it is now delightfully cool and fresh, and the distillation is progressing under exceptionally favourable conditions—so much so, that the present harvest is likely to last three weeks at least. Nothing definite can be said regarding the fixing of prices until the final result of the crop is made known."

The Tea-market

The tea-market has been dull and dragging all through May, and prices of common leaf Assam and Ceylon show a drop of about 1¼*d.* per lb. from the highest point about Easter. It is however, only the quietness of the country demand which keeps prices down. Retailers and blenders are only buying what they are compelled to buy under the evident impression that prices are not likely to go up much, and that if they go down they may go down a good deal. The position is still a very strong one: deliveries keep up fairly well in spite of high prices, and arrivals are very moderate and cannot be heavy for another couple of months. Sound sweet leaf Ceylon for price can be bought at 7*d.*, though with difficulty, and a little extra demand would send the price up to 7¼*d.* to 7½*d.* directly. Lower grades of Assam are in very small supply, and while commonest leaf Assam would fetch 7*d.* to 7¼*d.* in sale, there is practically none offering. Better Indians are getting very scarce indeed, and buyers will be well advised to cover their requirements for the next two months fully. Ceylons about 8*d.* to 10*d.* are the only sorts that can be described as showing really good value at the present time. Fine teas with flavour, and quality, and character can be bought at this range, though they are a bit too light in liquor to be used freely.

Heavy Chemicals.

[*These prices are for market-centres other than London*]

The general condition of the heavy-chemical market remains for the most part as lately reported. A good and steady business is being done, and home consumers' requirements are on the increase. Export trade is about up to the average for the time of the year. Prices all round are steady, and well maintained at late figures.

ALKALI PRODUCE.—Bleaching-powder is in heavy request, with price firm at 5*l.* f.o.b. Liverpool, and Tyne 5*l.* 5*s.*; softwoods on rails, 4*l.* 2*s.* 6*d.* to 4*l.* 5*s.* Caustic soda steady: 60 per cent., 6*l.*; 70 per cent., 7*l.*; 74 per cent., 7*l.* 7*s.* 6*d.* to 7*l.* 10*s.*, all f.o.b. Liverpool; and 76 to 77 per cent., 7*l.* 15*s.* to 8*l.* f.o.b. Tyne or Liverpool. Ammonia alkali firm, and moving well at 3*l.* 17*s.* 6*d.* to 4*l.* 2*s.* 6*d.* per ton free on rails in bags. Saltcake steady, at about 28*s.* per ton in bulk on rails. Soda crystals maintain a very firm tone, and are in active demand at 57*s.* 6*d.* per ton f.o.b. Liverpool, and 52*s.* 6*d.* f.o.b. Tyne. Bicarbonate of soda steady. 6*l.* 2*s.* 6*d.* to 6*l.* 7*s.* 6*d.* per ton in 10-cwt. casks, and 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.* in 1-cwt. kegs f.o.b. Liverpool. Soda ash: 48 per cent. caustic and carbonated, 4*l.* 2*s.* 6*d.* to 4*l.* 17*s.* 6*d.* per ton free on rails. Silicates of soda are unchanged at late rates, with steady demand: 140° Tw., 3*l.* 5*s.* to 3*l.* 7*s.* 6*d.*; 100° Tw., 3*l.*; and 75° Tw., 2*l.* 12*s.* 6*d.* to 2*l.* 15*s.* f.o.b. Tyne or Liverpool in usual casks, with extras for other packages. Yellow prussiate of potash is very firm owing to heavy demand, and stands a shade higher, at 8¼*d.* to 8½*d.* per lb. for best Lancashire makes. Chlorates of potash and soda unchanged, at 3½*d.* to 3¾*d.* and 3¾*d.* respectively.

SULPHATE OF AMMONIA is now quieter, and also a shade weaker: Beckton and Beckton terms, 12*l.* 15*s.* to 12*l.* 17*s.* 6*d.*; London and Leith, 12*l.* 15*s.* to 12*l.* 17*s.* 6*d.*; and Hull, 12*l.* 10*s.* to 12*l.* 11*s.* 3*d.* Exports from Leith last week only amounted to 64 tons.

GREEN COPPERAS is moving a little better, and stands unchanged at 42*s.* to 43*s.* f.o.b. Liverpool for best Lancashire.

WHITE POWDERED ARSENIC.—In request and firm, at 19*l.* to 19*l.* 10*s.* ex-ship Garston.

SOUTH DURHAM SALT.—Firm, at 9*s.* 6*d.* per ton f.o.b. Tees.

MAGNESIUM-SALTS.—Steady: chloride, 50*s.* per ton; sulphate (Epsom salts), 55*s.* to 60*s.*, in bags on rails; carbonate, 37*s.* 6*d.* to 40*s.* per cwt.; and calcined magnesia, 1*s.* to 1*s.* 4*d.* per lb.

Liverpool Drug-market.

Liverpool, May 31.

CASTOR OIL.—Notwithstanding "bullish" reports from Calcutta, spot market remains steady at $2\frac{13}{16}d.$ to $2\frac{7}{8}d.$ for good seconds Calcutta, $2\frac{3}{4}d.$ to $2\frac{13}{16}d.$ for first-pressure French, $2\frac{5}{8}d.$ for second-pressure French. There is not much animation in the article at the moment.

CANARY-SEED.—The long-continued stagnation in this article has at length been broken, and considerable business has been done at prices ranging from 26*s.* 6*d.* up to 29*s.* 6*d.*, and it is doubtful if more can be obtained at the latter price. Strong reports come from the producing-districts, and importers will not sell under 30*s.* per quarter to arrive.

CHILLIES (S.L.) are moving off slowly, sales being reported of bright at 45*s.* per cwt. For Niger capsicums 30*s.* to 32*s.* 6*d.* per cwt. is being asked.

QUILLAIA is in very firm hands, and some holders will not sell at the prices now ruling.

GINGER (AFRICAN).—Sales are reported at 17*s.* 3*d.* to 17*s.* 6*d.* per cwt. in transit.

BEESWAX (CHILIAN).—Further business is reported, and 14 sacks good grey and yellow sold at 7*l.* 2*s.* 6*d.*; orange, 24 packages, sold at 7*l.* 7*s.* 6*d.* per cwt., and a small parcel of Gambier 6*l.* 15*s.* per cwt. For 3 cases good yellow at auction 7*l.* 7*s.* 6*d.* was asked, but no business was done.

IRISH MOSS.—A parcel on the quay was offered at auction; 7*l.* per ton bid, but 8*l.* asked.

KOLA-NUTS.—Twelve bags African quality, not particularly choice, sold from the quay at 1*d.* per lb.

GUM ACACIA SORTS.—The importers are still firm in their views, and are quoting from 62*s.* 6*d.* to 75*s.* for the comparatively small stocks offering here. Five tons Brazilian gum arabic has been sold at 18*s.* per cwt., and the remaining stock, being much reduced, is held for 19*s.*

HONEY.—Californian is steady at prices ranging from 35*s.* to 42*s.* 6*d.*, according to quality, and Chilian is moving slowly at 21*s.* 6*d.* to 28*s.* 6*d.*, according to pile.

German Market.

Hamburg, May 30.

Our drug-market has undergone little change since last week, and business is quiet.

CAMPHOR.—Refined is steady; second-hand has not come out with large stocks of month delivery (May contracts) as expected, and asks 342½m. to 345m. per 100 kilos

CITRIC ACID is firm at 295m. per 100 kilos.

ERGOT is unchanged; for good sound quality 250m. per 100 kilos. is still wanted.

GALANGAL is easier at 42m. per 100 kilos.

IPECACUANHA.—Unchanged. Rio not offering; Cartagena firm at 19m. per kilo.

MENTHOL is dearer; to-day's quotation has been advanced to 15m. per kilo.

QUININE is very quiet, with second-hand sellers at 43m. per kilo.

CARNAUBA WAX.—Steady at 85m. to 150m. per 100 kilos., according to quality.

CASTOR OIL.—Quiet; first pressing, in barrels, on the spot is 50½m., forward 49½m. per 100 kilos.

COD-LIVER OIL is firmer; non-congealing oil is quoted 56½m. per barrel.

PEPPERMINT OIL.—HGH, 4.65m. per lb., and Japanese ditto, 7m. per kilo, being slightly firmer.

Among the arrivals in Hamburg this week are 133 beeswax, 16 bales sarsaparilla, 9 Alexandrian senna, 112 bags galls, and 6 cases cajuput oil.

American Market.

New York, May 23.

Business continues fairly satisfactory, and is confined almost wholly to consuming-channels. Speculative demand is almost entirely absent.

OPIUM continues dull and lifeless. In the total absence of demand, quotations are nominal at $2.85, but it is believed that $2.80 or even $2.75 would not be refused.

QUININE is improving, and sales have taken place amounting to nearly 100,000 oz. From 29c. to 32c. has been paid, and quotations are firmer at 30c. to 32c. Manufacturers continue to quote 36c., but report little business.

CAMPHOR has further advanced ½c., and values are strong at 46c. for barrels, and 46½c. for cases. Prices are still tending upwards.

IPECACUANHA (RIO) has declined in consequence of arrivals of low-grade root. $3.40 to $3.60 is now quoted.

JALAP is firmer, and all stocks in first hands have been bought up. Dealers have advanced quotations to 10½c. to 12c. according to quality.

ERGOT is generally firmer, and only small parcels are available on the spot. German is held at 29c. to 31c., and Spanish at 38c for first quality.

OIL OF CITRONELLA is easier in consequence of active competition; 23½c. to 24c. will buy in drums, and 25c. to 26c. in cases.

CASCARA SAGRADA is weaker, and last year's bark can be obtained in small lots at 6½c. New bark is expected shortly, and consumers are pursuing a hand-to-mouth policy. It is stated that new bark in car-loads, July shipments, will be obtainable at less than 3c. This is somewhat doubtful in view of the present outlook.

BALSAM COPAIBA is easier, owing to arrivals, and Central American can be bought at 35c.

NAPHTHALENE, in balls, is very scarce, and prices again show an advance to 5c. to 6c., according to holder.

Cablegrams.

BERGEN, June 1, 12.45 P.M.:—The Finnmarken cod-fishing remains as it was, the catch being poor. To date the total is 29 589,000 against 34 712,000 last year, and the yield of unrefined oil 27,670 barrels, against 20,680 last year. Prices have an upward tendency, the lowest for refined medicinal oil being 56*s.* per barrel, f.o.b.

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HAMBURG, June 1, 1.17 P.M.:—Menthol is rising, and cannot be bought to-day under 15½m. per kilo. Refined camphor is unchanged at 343m. per 100 kilos. Business has been done in quinine sulphate at 43m. per kilo. second.

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NEW YORK, June 1, 3.16 P.M.:—A quiet market here. Cinchonidia has advanced to 25c. per oz. Quinine is 34c. in second-hands, who are firm holders as it is much wanted. Citric acid is now 42c. per lb. New golden-seal root is 60c. Menthol is a shade easier at $2 10. New senega is offered at 24c. per lb. Gum myrrh is easier at 15½c. for fair Aden sorts.

London Markets.

ACID, CITRIC.—On Monday makers advanced their price to 1*s.* 6*d.* per lb. for English crystals, owing to the advance in concentrated juice to 20*l.* to 21*l* per pipe c. and f. In second-hand there has been a good inquiry, and ton lots sold early in the week at 1*s* 4¾*d.* to 1*s* 5*l.* per lb. Yesterday 1*s.* 5*d.* was refused in one quarter, but there were still sellers at the inside figure. The makers are getting their price. The shipments of lemon juice from Messina during April were 400 pipes, and 300 casks citrate of lime. The estimated stock on May 1 stood at 1 500 pipes.

ACID, TARTARIC.—In good inquiry at 1*s* 1*d.* per lb. for English crystals and 1*s.* to 1*s.* 0¼*d* for foreign.

ALCOHOL.—In good demand at unchanged rates, especially for the Niger Coast Protectorate, where a higher import-duty is about to be fixed. Supplies for prompt delivery are scarce, and dealers here have difficulty in getting spirit from Germany, as distillers are busy.

ALMONDS.—Messina advices, dated May 1, report reduced stocks, although the consuming-demand is very poor. Owing to the good prospects of the next crop, quotations are slowly but steadily declining.

ALUM.—Loose lump is quoted 5*l.* 7*s.* 6*d.* per ton, and ground in bags 6*l.*, ex-warehouse.

BALSAM PERU.—Business is passing at 8*s.* 3*d.* per lb.

BLUE-FLAG ROOT is scarce, and the quotation has been advanced to 7*d.* per lb, c.i.f.

BUCHU.—Quiet. Buyers are waiting the good supply to be offered in auction next week.

CAMPHOR.—Refiners report a fair consuming-demand at the official quotations, and in Hamburg business in refined is active. There is little doing in crude, for which the nominal quotation is—Japanese, 129*s.* per cwt., c.i.f. (again dearer): Chinese, 122*s.* 6*d.* Hong-Kong advices, dated April 20, report a slightly weaker market. Quotations for Formosa on that date were $68 00 to $68 50. Sales for the week were 200 piculs.

Supplementary to the information given on page 890 regarding the Formosan camphor-monopoly, we quote the following interesting statement from the *O., P. & D. Reporter* received to-day:—The Government camphor-monopoly scheme in Formosa having

been approved by the Diet, the business will be inaugurated after July next. The estimates for the remaining nine months of the next fiscal year are said to be as follows :—

	Vol. cat.	Pur. Price per 100 cat.	Sell. Price per 100 cat.
		Yen	Yen
Purchased camphor... ...	3,076,400	30	42
Experimental manufacture	700,000	—	42
Purchased camphor oil ...	1,636,200	15	20
Experimental manufacture of oil	252,000	—	20

The Formosan Government expects to realise from this monopoly a sum of a little over half-a-million yen during the nine months of the coming fiscal year, as estimated below:

	Pur. Price or Exper. Cost	Sell. Price	Balance of Profit
	Yen	Yen	Yen
Purchased camphor ...	922,920	1,292,088	368,168
Purchased oil	245,430	327,240	81,810
Experimental camphor and oil	248,800	344,400	95,600
Total...	1,417,150	1,963,728	545,578

The foregoing estimates recalculated for twelve months, the profits accruing from the undertaking will be 730,000 yen approximately. But as the management of the monopoly involves an outlay of over 277,000 yen, the net profit procured by the Government will be less than half-a-million yen per annum.

The resolution of the Japanese Government to control the Formosan camphor-industry has drawn attention in Sumatra to the camphor-tree forests in the western part of that island. It is said that "the forests are met with over widespread areas, but the article has been so little dealt in that the export stands at a low figure. The camphor from Baros, on the West Coast of Sumatra, enjoys a high reputation, and yet the trade in it is allowed to languish, though vast forests of camphor-trees lie untouched." The last sentence in this quotation shows that the report does not refer to the camphor-laurel, which yields Chinese and Japanese camphor, but to *Dryobalanops aromatica*, the tree which yields Borneo camphor, a product worth more than its weight in gold, and which finds its principal outlet in China, where it is employed for embalming and other purposes connected with funeral-ceremonials. This camphor is found in fissures of the tree, and a whole tree yields only some ounces. As far as we are aware, the camphor-laurel does not grow in Sumatra.

CANNABIS INDICA.—A good export-business has been done this week for the United States at a lower figure—viz., 4½*d.* per lb.

CASCARA SAGRADA.—New bark is quoted for July-August sailer-shipment at 30*s.* per cwt., c.i.f., in ton lots, while four-year-old is 35*s.*, c.i.f.

CINCHONA.—The shipments from Ceylon for the week ending May 9 were 8 064 lbs. only. At Amsterdam, on June 8, 4,956 bales and 500 cases will be offered. The total weight is 481 800 kilos. (containing the equivalent of 829,920 oz. quinine sulphate), of which 73,382 kilos. is pharmaceutical bark, and 408,418 kilos. manufacturing-bark. The manufacturing-bark contains an average yield of 5·36 per cent. quinine sulphate, against 5 52 per cent in May, and 5 21 per cent. for the ten auctions in 1898. There has been a fair amount of business done in druggists' barks lately, and in many instances lower prices have been accepted. The Java shipments in May amounted to 666,400 Amst. lbs., against 672,000 Amst. lbs. last May. The total for the five months is 170,000 Amst. lbs. under last year.

CINNAMON.—The usual quarterly public sales were held last Monday. With small supplies and a good competition, the whole quantity offered sold at an advance of ½*d.* to 1*d.* per lb. on common kinds, and 1*d.* to 2*d.* on fine qualities, as compared with prices ruling at the previous auctions. There was, however, no demand for the numerous lots of coarse bark and stringy chips which were on show, and they were all bought in at about 3*d.* per lb.

COCOA-BUTTER.—At the Amsterdam auctions next week 10 tons of Suchard's will be offered, in addition to the other brands mentioned last week.

COCA LEAVES.—The shipments from Java during March were 555 bales.

COCAINE remains firm but without inquiry. Makers continue to quote 11*s.* 3*d.* per oz. generally for the hydrochloride, and second-hand a shade under this figure. In Hamburg, the small quantity of crude has been partly taken out of the market.

COLOCYNTH remains firm at 1*s.* per lb. for good pale apple, and in one quarter an offer of 11¼*d.* has been refused.

CREAM OF TARTAR.—Easier. Ordinary white crystals are obtainable at 72*s.* 6*d.* and powder at 74*s.* 6*d.* per cwt., while 95-per-cent. powder is 76*s.* per cwt.

CUBEBS.—Dull and unchanged in value. The shipments from Singapore to the United States from January 1 to April 11 have been 472 piculs, and to Great Britain *nil.*

CUMARIN has been advanced in Germany to 50m. per kilo., and a further rise is looked for, owing to the good demand and scarcity of raw material.

CUTTLEFISH-BONE.—The new catch is expected in about a month or so, when lower prices are expected. Trieste advices report that last year's production is now almost cleared.

DAMIANA-LEAVES.—New crop can be had at 4¼*d.* per lb., c.i.f.

DRAGON'S-BLOOD.—Fine lump still remains in demand, but ordinary to medium, of which there is plenty, is not wanted. The total shipments from Singapore to Great Britain from January 1 to April 30 have been 92 piculs, as against 30 piculs for the corresponding period of 1898; 54, 1897; 63, 1896; 145, 1895; and 151 piculs in 1894.

GALLS.—Persian are very quiet, but firmly held at 62*s.* 6*d.* to 65*s.* per cwt. for blue. Smyrna blue have changed hands at 57*s.* 6*d.* per cwt.

GLYCERIN.—Crude and dynamite glycerins still keep up their values, the former (80-per-cent.) selling at 26*l.* 10*s.* per ton in 100 ton lots. Refined German is 52*s.* in cases, and English 47*s.* 6*d.* to 48*s.* 6*d.* per cwt.

GOLDEN SEAL (HYDRASTIS).—Autumn-dug root is quoted 3*s.* 2*d.* per lb., c.i.f. Reports from the other side state that prices are likely to remain high this year as supplies are scarce. The good prices will no doubt stimulate gatherers, and the large amount that will consequently be collected may have the effect of overloading the market and bringing down the price.

GUM ARABIC.—Holders continue firm for the higher grades of Persian insoluble sorts, but the demand has fallen off The small business done includes medium to fair sorts at 19*s.* to 19*s.* 6*d.*, and fine pale at 25*s.* per cwt. Soudan sorts are quiet.

During 1898 14,643 cwt. of gum were shipped from Suakin, valued at 29,434*l.*, as against 29,793*l.* in 1897. Of this amount Great Britain took 6,642 cwt. (13,464*l.*), and Trieste 7,966 cwt. (15,899*l.*). Mr. Consul Lamb, in his report on the trade of Suakin, says that about 500 tons of gum were found at Omdurman on the capture of that place in September, and some 200 tons at points higher up the Nile. The Custom-house valuation for export averaged only a little over 40*s.* per cwt., but large parcels changed hands as recently as last month at 49*s.* to 50*s.* per cwt.

GUM TRAGACANTH.—There has been a good export-demand this week and last, the bulk of the transactions being in fourths and lower grades, for which full values have been obtained. Seconds and thirds have been dealt in to a small extent only. The stock of Bussorah log-gum is now very small, and business has been done at 40*s.* up to 65*s.* per cwt.

GUMS, VARNISH.—The offerings in auction to-day were up to the usual standard both in quantity and quality. The largest supply was in copal 4,106 packages being offered, of which 982 were sold at slightly dearer rates. There were 3 320 packages of kauri catalogued, and a little over a third sold at fairly maintained prices. Animi sold with good competition, but damar, olibanum, accroides, sandarac, seedlac, and grass-tree gum, were totally neglected. The following prices were obtained:—

ANIMI.—Good strong bold red Zanzibar, 12*l.* 15*s.* per cwt.; fair pale to yellow, 9*l.* 17*s.* 6*d.* to 10*l.* 5*s.*; ambery ditto, 9*l.* 2*s.* 6*d.* to 9*l.* 5*s.*; weaker, 8*l.*; fine pale chips, 6*l.* 2*s.* 6*d.* to 6*l.* 15*s.*; ambery ditto, 5*l.* 12*s.* 6*d.*; good dark sorts, 86*s.*; fair siftings, 39*s.*; poor woody sorts, 15*s.* One cask West Indian sold at 6*l.* 5*s.*, and 1 barrel reddish Demerara at 5*l.* 5*s.*

COPAL.—Fine bold hard scraped Singapore, 59*s.* to 63*s.* per cwt.; good bold, part scraped, 52*s.*; fair white softish, 45*s.* to

46s.; darker and weaker, 35s. to 37s.; fair mixed, part stony, 28s. 6d. to 31s.; nubbles, 24s. 6d. to 25s.; good pale yellow chips, 18s. 6d. to 20s.; smaller chips, 13s. to 18s.; bold pale to ambery Manila, 35s.; yellowish and soft, 30s. to 32s. 6d.; weaker yellow, 22s. to 25s.; chippy dust, 15s.; pickings, 14s.; blocky ditto, 11s. to 13s.; sweepings, 13s. Neither Angola nor Benguela were bid for.

Damar.—Some fine qualities of both Batavian and Singapore varieties were on view, but there was no demand in auction.

Gum Arabic.—Two cases of reddish Australian were sold at 18s. per cwt.

Kauri.—Dial, 14l. 12s. 6d. Fine pale, hard scraped 14l.; fine yellow bright, 13l. 10s.; good bold pale to ambery chopped, 8l. 12s. 6d. to 9l. 5s.; good bright chopped, 7l. 10s.; fine pale chips, 72s. to 87s.; fine pale dust, 38s. 6d.; slightly darker, 28s.; darker, 16s to 19s. Good bold ambery, 6l. 10s. to 6l. 17s. 6d. Brown varieties, good bold, 7l. 5s.; darker and smaller, 5l. 10s. to 5l. 15s.; fair brown sorts, 92s. 6d. to 95s.; weaker, 87s. 6d. to 88s.; good small, 71s. to 77s.; dark strong, 73s.; brown chips, good, 64s. to 67s.; smaller and dusty, 46s. to 48s.; chippy dust, 40s.; nuts, 32s. 6d. to 37s. 6d.; dust, 13s. 6d. to 14s.; dark ditto, 9s. 6d. to 10s. Threequarter-scraped, 99s. to 5l. 5s.; poor half-scraped, 67s. 6d.; coated nubbles, 41s. to 49s. East Coast chips, 67s. to 70s.; pale dust, 36s. 6d. Bush, fine pale selected, 8l. to 8l. 5s.; good pale to yellow, 6l. 7s. 6d. to 6l. 15s.; ambery and pale, 5l. 10s. to 5l. 15s.; darker sorts, 77s.; good chips, 74s.; dark pickings, 35s.

Olibanum.—Of the 538 packages offered not a single one was sold publicly. Good pale drop is limited at 40s. to 45s. per cwt., darker sorts 30s.

Insect-flowers.—By Monday the trade realised the importance of the advice in our last regarding the stringency of supplies at Trieste, and a further advance in closed flowers was reported. Now, it is difficult to get first-hand prices. The supplies now coming forward are of poor quality.

Jalap has been in good inquiry this week for export to the United States, but no business has so far been done, owing to the firmness of holders, who require 6½d. per lb. for ordinary Vera Cruz.

Menthol.—Firm at 7s. per lb., c.i.f., June-July steamer or spot. Some holders are indifferent sellers, believing in higher prices later on.

Oil, Cassia.—Firmer in China, but no business doing here. 70 per cent. to 75 per cent. is cabled 3s. 8d. per lb., c.i.f., 75 per cent. to 80 per cent., 3s. 10d., and 80 per cent. to 85 per cent, 4s. 3d. per lb.

Oil, Cod-liver.—There is a fair amount of business going on, but the firmer prices talked about are more apparent than real, as in one quarter 56s. per barrel, c.i.f., has been accepted for new oil, and even a lower figure is mentioned for large contracts.

Bergen, May 27.—The market has been firmer during the past week, owing to the poor results at Finnmarken, where the weather has been stormy and the fish scarce. Sellers are holding out for 55s. per barrel, and the market is firm at this figure. The exports from Bergen to date are 4,736 barrels, as against 3,652 barrels at the same time last year.

Oil, Neroli.—Distillation of new crop is now going on in the South of France, and for pure 250f. to 300f. per kilo. is asked.

Oil, Peppermint.—An improved feeling is evident this week in American HGH, owing to the advance on the other side. Quotations vary, some holders asking 4s. 10d. to 5s. per lb., c.i.f., while some say this outside figure has been refused for 50 cases. The amount of business done, however, has only been small as stocks here are heavy. "Wayne County" is also firmer, with sellers at 3s. 3d. to 3s. 6d. per lb., c.i.f. Japanese dementholised, June-July steamer, is quoted 3s. 2d.

Oil, Thyme.—Advices from the South of France report an advance of 4d. per lb. all round, with prospect of further advance. For guaranteed pure oil 4s. 6d to 5s. per lb. is wanted, though quotations run down to 1s. 7d. for inferior.

Opium.—Quiet; buyers being indisposed to operate until definite prices are fixed for new crop. Meanwhile a few small sales of Persian and Turkey have been made.

Smyrna, May 20.—With the object of maintaining the market, one or two large exporters have bought a fair quantity this week—viz., 40 cases, including Karahissar talequale—at the equivalent of 7s. 7d. to 7s. 9d; Yerli, 7s. 8d. to 8s; and current talequale at 7s. 6d. Market closed very firm, with buyers at slightly below the above prices. The crop prospects were never better.

Constantinople, May 27.—Quietness continues to prevail; the only sale is a small lot of 8 cases, at the equivalent of 7s. 5d. per lb., f.o.b., for druggists'. Holders are not inclined to sell at to-day's prices. Owing to short crops, a limited business only is possible between now and the appearance of new crop, in about two months' time. Stocks to-day, of all grades, are about 200 cases, against 500 this time last year. Information from Salonica and Anatolia is to the effect that the growing crops have greatly benefited by recent rains.

Potash Permanganate.—Quiet. Schering's brand has been advanced to 57s. 6d. per cwt., with what object is not apparent. There are sellers, however, at the old figures, but no business has transpired.

Potash Prussiate.—English yellow is very firm at 8d to 8½d. per lb., while Beckton quote 7⅞d.

Quinine.—The improvement noted in our last has been maintained in second hands, and prices have shown a daily gradual advance of a fraction. Altogether a moderate business has been done this week, sales including spot delivery at 1s. 4¾d. to 1s. 5d., but mostly August at 1s. 4⅞d. up to 1s. 5¼d. per oz., June at 1s. 4⅝d. to 1s. 5d., and October 1s 5½d. On Tuesday there were buyers of B and S. or Brunswick at 1s. 5¼d. for August, and 1s 5½d. for October, but no sellers. Wednesday was quiet, although at the last moment the market hardened, June delivery selling at 1s. 5d. on receipt of news that Java bark shipments for May were light. Other business done during the week includes Zimmer and Auerbach at 1s. 4d. to 1s 4¼d per oz. Imperial is quoted 1s. 4½d. spot, and Java 1s. 4d. per oz.

The shipments from Java during March were 209 cases, of which 175 came to London and 34 cases to Amsterdam. From July 1, 1898, to March 31, 1899, 1,051 cases (420,400 oz.) were shipped.

Seeds.—The feature this week has been a rise in the price of *Canary-seed*, owing to rumours of a failure of the Turkish crop. There seems to have been drought in European Turkey, but the grain crops in Asia Minor are said to be good. The truth may be that the crop will be short in some parts, but not in others. In the meantime holders have withdrawn their stocks from the market awaiting further news. *Caraways* are firm with an upward tendency, but other seeds are unchanged.

Soda Nitrate has been reduced to 8s. per cwt. on the spot for ordinary, while refined is unchanged at 8s. 4½d. It appears that hope of a new combination amongst the nitrate and iodine producers is steadily being reduced to a vanishing-point.

Spices.—Following the usual custom on Derby-day there were no public sales on Wednesday. There has been a firm market, however, for *Pepper*, with more business doing. Singapore black is unchanged in price, but white is a fraction dearer. Penang white has sold at 7⅞d to 8d. per lb. on the spot, and at 8 3/16d. to 8 5/16d. per lb. to arrive, according to position. A good business has been done in Tellicherry black at 5¼d per lb. on the spot for fair quality. Zanzibar *Cloves* have been neglected, and are rather lower, at 3⅛d. per lb. for near delivery, and at 3 3/16d. for distant.

Coming Events.

Saturday, June 3.

Wholesale Chemists' and Druggists' Cricket Championship. Matches at Bowes Park—Kepler *v.* Hewlett's, and at Brockley, Davy Hill's *v.* Stevenson & Howell's.

Monday, June 5.

Society of Chemical Industry, Burlington House, Piccadilly, W. at 8 P.M. "A New Method for the Analysis of Commercial Phenols," by Dr. S. B. Schryver. "A Demonstration of Printing by Electricity, without the aid of Rollers and Ink," by Dr. S. Rideal. "Notes on Cacao-butter," by Dr. J. Lewkowitsch. "The Use of Iron as the Active Element in Primary Batteries used for Electrolysing," by Col. J. Waterhouse.

Wednesday, June 7.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C. Council-meeting at 11 P.M.

Pharmaceutical Society of Ireland, 67 Lower Mount Street Dublin. Council-meeting at 3 P.M.

New Special Wholesale Terms

£5 PARCELS OF CONDY'S FLUID.

CONDY & MITCHELL are now prepared to place all Chemists who are buyers of £5 worth of CONDY'S FLUID, on their absolutely best Wholesale Terms.

ALL ENQUIRIES AND ORDERS SHOULD BE ADDRESSED TO

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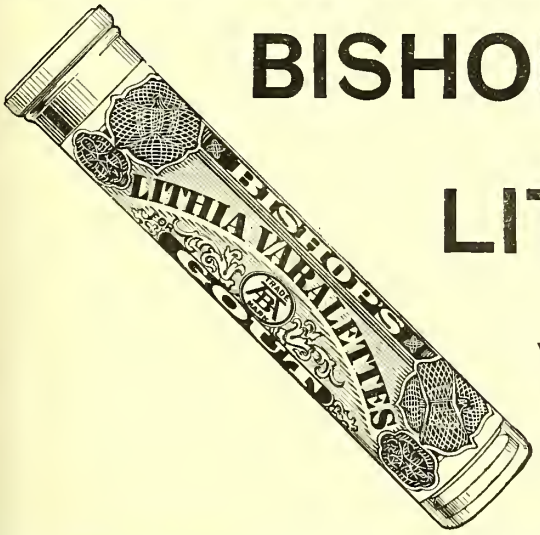

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For GOUT.

Our Varalettes are now being very largely advertised in the leading newspapers and magazines. We have protected the Varalettes at the retail prices given below.

In Vials ... ... at **10**/- per doz. Vials ... Retailing at **1**/- per Vial.
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In a box containing 25 days' treatment at **50**/- per doz. Boxes ... Retailing at **5**/- per Box.

Less usual discounts.

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These products are made by the Ammonia Process, and are distinguished from others by their great purity.

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Concentrated Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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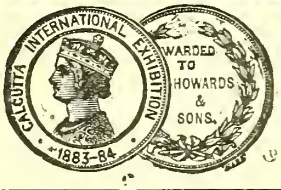

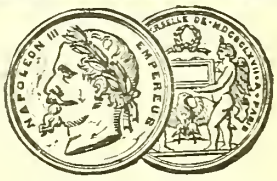

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ASEPTIC, LIQUID, SOLUBLE IN WATER!
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Does not discolour the skin, and is more efficacious than Tincture of Iodine.

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Can be taken per os, in capsules, or dissolved in milk or water without producing gastric disturbance even in patients who cannot take Creosote in any other form.

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ASSIMILABLE

IRON TONIC

This is an entirely vegetable preparation, the Iron therein having been extracted from plants which have absorbed and assimilated the metal from the soil in which they grew. Thus assimilated and digested, as it were, by its passage through the plants, the Iron can be assimilated by the human system without any of the drawbacks such as constipation, stomach disorders, headache, and blackening of the teeth, which attach to every known form of prescribing the crude metal. It can therefore be taken by the most delicate persons, both adults and children, and will be found an INVALUABLE AND UNFAILING REMEDY in all cases of Anæmia, Chlorosis, Debility, Hysteria, and Nervous Exhaustion of all kinds.

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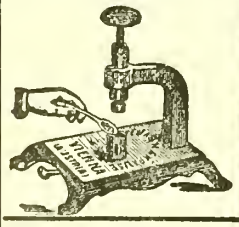

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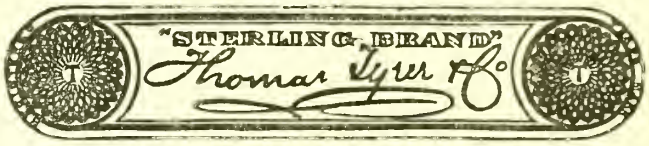

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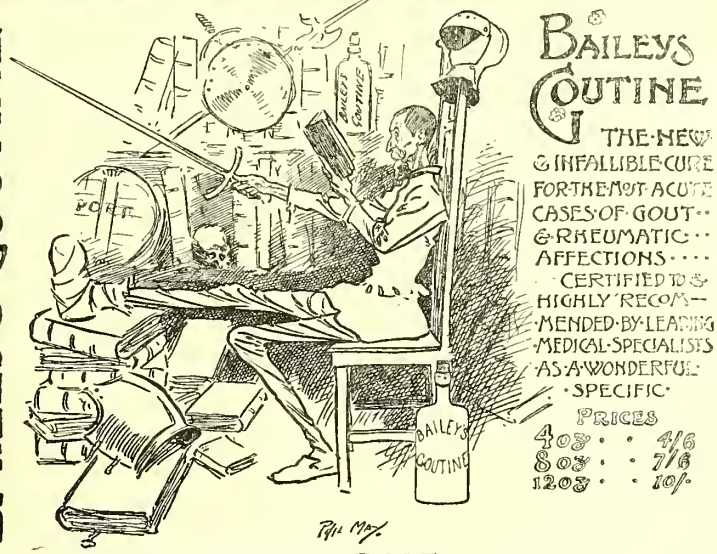

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Gives instant relief in most acute cases.

Absolutely the first remedy for Gout introduced in the World free from harmful ingredients.

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Dr. SCOTT'S PILLS

ARE PROTECTED UNDER THE P. A. T. A. SCHEME.

1/1½ size	Wholesale Price,	**10/-** per dozen.
,, ,, ...	Minimum Retail Price,	**1/-** ,, box.
2/9 ,, ...	Wholesale Price,	**24/-** ,, dozen.
,, ,, ...	Minimum Retail Price,	**2/6** ,, box.

These Pills can be safely recommended by all Medicine Vendors as a mild and effectual aperient for both sexes. They never cause griping. They are useful for all Bilious and Liver Complaints, Indigestion, Wind, Spasms, Nervous Depression, Irritability, Lassitude, Loss of Appetite, Dyspepsia, Heartburn, &c.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, Carriage Paid, 8vo size, for house to house distribution, White Demy 4to Wrappers and Crown Folio Bottle Wrappers, for Counter use, will be forwarded on application to 173 Seymour Place, London, W.

GOLD MEDAL AWARDED.

The NEW VAPORISER

PATENTED] "OUR OWN." [AND REGISTERED.

Patronised by Members of the Royal Family and the Élite of Society.

Recommended by the Highest Medical Authorities.

On every Toilet Table, in every Nursery, in every Sick Room, this Vaporiser is Invaluable.

RETAIL PRICES.

	Price
"OUR OWN," Nickel-plated	15/-
"OUR OWN," Silver-plated	21/-
"OUR OWN," Bronze, with Silver Fittings	25/-

ALL ENGLISH MADE.

It is the best means of obtaining and preserving a clear complexion, and is specially recommended for the self-administration of spray remedies in all diseases which affect the skin, throat, lungs, mouth, eyes, ears, and head.

EAU DE LIS... ... ... 2/6 per bottle.
"IO" LOTION ... ... 2/6 per bottle.
LOTION DÉTERGENTE, 3/6 per bottle
All three preparations are used in conjunction with the Vaporiser.

The Electric Rouleau-Masseur and Battery complete, price £2 12s. 6d.

PATENT ELECTRIC HAIR BRUSH, price 15s.

Wholesale and Retail Agents for all the Toilet Preparations and Perfumery of the **Société Hygiénique, 55 rue de Rivoli, Paris.**

Pamphlets for Distribution, Carriage Paid. Write for Full Particulars from

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT ST., REGENT ST., LONDON, W.

IF YOU WANT

"HEBE"

BRAND.

A GOOD CAPSULE

Order the "Hebe" Brand, made by Palethorpe's Special Process.

Their Points of Excellence are Accurate Capacity, Perfect Finish, Absolute Purity of Contents and Moderate Price.

Speciality, "Hebe" Santal Capsules, guaranteed absolutely colourless. Manufactured in England by English Machinery.

Home and Export Inquiries invited. Liberal Terms to Shippers and Foreign and Colonial and Wholesale Buyers.

SOLE MAKERS:—

ROBERT FERBER & CO.

Wholesale & Export Medicinal Capsule Manufacturers, and Packers of Chemists' Specialities,

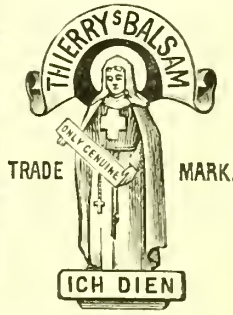
14 UPPER THAMES STREET, LONDON, E.C.

THIERRY'S

MARVELLOUS

BALSAM & OINTMENT

(ON THE PROTECTED LIST OF THE P.A.T.A.).



TRADE MARK.

Chemists should stock these goods, which will soon be in great demand; they are the Best known and most extensively used Remedies on the Continent, and

ARE NOW BEING, AND WILL CONTINUE TO BE, LARGELY ADVERTISED IN THE UNITED KINGDOM.

PRICES— PER DOZ

Thierry's Marvellous Balsam ... 1/1½ ... 10/6
Thierry's Marvellous Ointment ... 2/9 ... 25/-

A single dozen will be sent at above prices Carriage Paid.

10% Discount on Wholesale Orders.

SHOWCARDS, &c., SENT ON APPLICATION.

Address—A. THIERRY, 89 Farringdon St., LONDON, E.C.

T. HOWARD LLOYD & Co

Wholesale & Export Druggists, & Manufacturing Chemists.

High St & Townhall Ln · Leicester.

SEMPER EADEM

GRANULAR EFFERVESCENT

CITRATE OF MAGNESIA

Our manufacture of this article has met with all-round commendation from our customers, and every year our sale increases largely.

Our "A" quality is almost identical with the British Pharmacopœia formula, but owing to the desire of the public for a sweeter preparation we make four kinds, A. B. C. & D.; each having the proportion of Sugar, varied according to the price.

1 cwt. and upwards supplied in 28-lb. Tins. TINS & CASES FREE.

March 1st, 1899.

"A" QUALITY. Blue Label.

Per lb. 10*d.*; 1 cwt. 90/-; in 4-28 lb. Tins. Tins and Cases free.

In round bottles, corked—	¼ lb.	½ lb.	1 lb.
Per dozen	4/6	7/8	12/6
Per gross	50/-	88/-	144/-

"B" QUALITY. Pink Label.

Per lb. 9*d.*; 1 cwt. 74/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	4/2	7/-	11/-
Per gross	46/-	78/-	128/-

"C" QUALITY. Yellow Label.

Per lb. 8*d.*; 1 cwt. 68/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	4/-	6/6	10/-
Per gross	44/-	74/-	116/

"D" QUALITY. White Label.

Per lb. 7*d.*; 1 cwt. 60/-; in 4-28 lb. Tins. Tins and Cases free.

In bottles as above—	¼ lb.	½ lb.	1 lb.
Per dozen	3 6	5/6	9/-
Per gross	38/-	62/-	102/-
In Enamelled Tins—		½ lb.	1 lb.
Per dozen	—	5/3	8/6
Per gross	—	58/-	99/-

Raspberry flavour, tinted	per lb. 1/-	per cwt. 70/-
Lime Fruit flavour	" 1/-	" 70/-
Lemon flavour	" 1/-	" 70/-

	A	B	C	D
6 oz. White Flats, patent stoppered, or blue lettered, patent stoppered, or wood top corks	48/-	38/-	36/-	34/-
8 oz. White Flats, patent stoppered, or blue lettered, patent stoppered, or wood top corks	52/-	44/-	42/-	40/-

SPECIAL TERMS AND PRICES FOR LARGE CONTRACTS.

FRUIT SALINE OR HEALTH SALT.

SALINE GRAINS OR GRANULAR FRUIT SALT.

SULPHUR SALINE, or "Brimstone and Treacle" up-to-date.

Lemonade Powder and Crystals.

SAMPLES AND QUOTATIONS FOR ANY OF THE ABOVE WILL BE FORWARDED ON APPLICATION.

TO CLINICAL THERMOMETER BUYERS, SHIPPERS, &c.

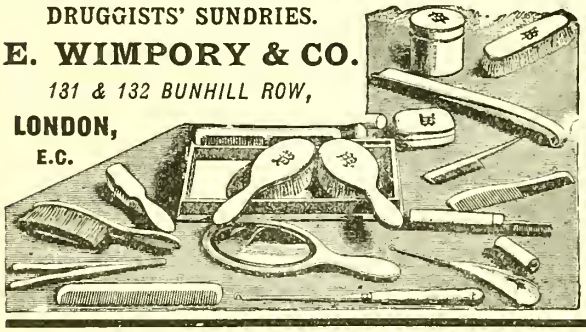
DENTON'S CLINICAL THERMOMETERS have had a constantly-increasing sale for upwards of a quarter of a century. They are guaranteed the best English make There are various patterns to choose from. They are reliable accurate, and neat. One trial is sufficient to recommend them. They are in use all over the world. All standard patterns kept in stock (special kinds and scales made to order). Our latest pattern, the "Quickset," can be "set" with only one or two shakes, thus avoiding the trouble of swinging the arm for five minutes. They are the greatest boon on the market for Nurses, as they save fatigue Wholesale of

S. G. DENTON (Maker to the Government),
Correspondence invited. 25a Hatton Garden, LONDON

for TINS of all kinds
Write to SHIRLEY BROTHERS
& SAVE MONEY!
Stock Designs Plain & Decorated also
Special Designs Produced.
Tins for Ointment·Vaseline·Tooth Powder
Health Salines · Citrate of Magnesia·
Insect Powder · Horse Powders·Carbolic·
Baking Powder·Coffee·Mustard · Polishes
· Cachous · Beads, etc.
WHITECROSS WORKS. LONDON. S.E.

COMBS & BRUSHES

DRUGGISTS' SUNDRIES.
E. WIMPORY & CO.
131 & 132 BUNHILL ROW,
LONDON,
E.C.



SUPPORT HOME INDUSTRIES.

A.D. 1777.

BUY KENT'S BRUSHES.

See pp. 72 to 75, Winter Issue, 1898; also Diary 1899. pp. 554, 555, 556, 557.

CHEMISTS' PRICE LISTS.

Apply to TIDMAN & SON, LTD., for conditions for advertising in above for 1899—

TIDMAN'S SEA SALT,
TIDMAN'S CREAMOLINE SOAP,
TIDMAN'S SEA SOAP.

TIDMAN & SON, LTD., Bushell St., Great Hermitage St., & Wapping High St., LONDON, E.

TRADE MARK. Telegrams:—"PHARSALIA." Telephone No. 2759 (Gerrard).

JOHN SANGER & SONS,

— DEALERS IN —

Proprietary Articles, Druggists' Sundries, Perfumery, Lozenges, Mineral Waters, Surgical Instruments, Fancy Articles, Photographic Apparatus and Sundries, &c., &c.,

HAVE TAKEN

STAND D, 1st CROSS AVENUE, ALSO STANDS 139 & 140,

AT THE

CHEMISTS' EXHIBITION,

Royal Agricultural Hall, June 19th to 23rd,

AND WILL SHOW A LARGE ASSORTMENT OF

DRUGGISTS' SUNDRIES AND PHOTOGRAPHIC APPARATUS.

— Their Town and Country Representatives and one or more of the Principals will be in attendance each day. —

THE NEW REGISTERED

POISON BOTTLE.

Registered No. 334871.

DARK BLUE GLASS, ONE SIDE PLAIN FOR LABELS

½	oz.	....per gross,	5/3
1	"	.... "	6/0
1½	"	.... "	6/9
2	"	.... "	7/6
3	"	.... "	8/3
4	"	.... "	9/0
6	"	.... "	10/0
8	"	.... "	15/6
10	"	.... "	18/0

THE WINSLEY BABY SOOTHERS.

No. 20.

2 doz. on Card.

Bone Ring and Silk Cord.

Per Gross, 20/-.

No. 20.

No. 25.

Large Wood Mounts.

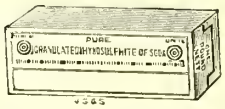
Large Teats

Per Gross, 14/3.

Per doz., 1/3.

No. 25.

Special Prices for Quantities.



HYPOSULPHITE OF SODA.

1 *lb. in Carton, as Illustration.*

Per doz., **1/9**; 3 doz., **4/6.**

12 doz. with Customer's Name on Free.

Special Prices for Quantities.

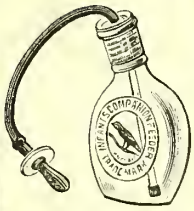
LITTLE LIVER GRANULES.

40 Pills in Metal Screw Cap Tubes, Assorted Coloured Wrappers.

Per doz., **2/6.**

6 doz. for **14/9**; 12 doz. for **28/-.**

Customer's Name printed on 6 doz. lots.



FEEDING BOTTLES

The Special "Bassinette."

Each in Box complete, screw white glass bent neck bottle, with bottle and tube brush, and 7½ in. of best black tubing.

3 doz., **12/9**; per doz., **4/6.**

12 doz. with Customer's Name on Label.

Not less than ½ doz. supplied.

GLYCERINE AND CUCUMBER.

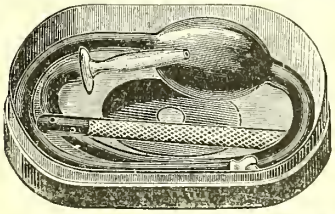
6d. size in handsome coloured cartons.

Per doz., **3/9.**

3 doz. at **3/6** doz.

12 doz. at **3/-** doz.

3 doz. and upwards with Customer's Name and Address.



ENEMAS, No. 1 (*as Illustration*).

Black Rubber Polished, complete in oval cardboard box, with bone rectum pipe, elastic gum vagina pipe and shield (3 doz, **56/-**; 1 doz., **19/6**), per doz., **20/-**

ALL ABOVE PRICES SUBJECT TO OUR USUAL 10 PER CENT. AND 5 PER CENT. DISCOUNT.

WAREHOUSE AND SHOWROOM: 2 WINSLEY STREET, LONDON, W.

THE UNITED ALKALI CO., LD.

30 JAMES STREET, LIVERPOOL.

CHLORINE AS A DISINFECTANT.

"CHLOROS," Hypochlorite of Soda, containing 10 per cent. available Chlorine.

The presence of 1 part "Chloros" in 100 parts of Sewage will entirely destroy all germs of Cholera, Typhoid, Diphtheria, Swine Fever, Glanders, and of many other diseases.

The presence of 1 part "Chloros" in 10,000 parts of ordinary Sewage will completely remove all smell.

"CHLOROS" is a liquid; it yields no insoluble residue, and cannot stop up drains.

"CHLORIDE OF LIME," containing 35 per cent. available Chlorine.

The Cheapest of True Disinfectants.

"SANITARY CHLORIDE OF LIME," containing 15 per cent. available Chlorine.

"SANITARY CHLORIDE OF LIME" is especially prepared for Sanitary purposes.

"SANITARY CHLORIDE OF LIME" does not become wet or sloppy on exposure to the air, and can be handled with impunity.

Sole Agents for "Chloros" & "Sanitary Chloride of Lime" to Chemists & Druggists in the United Kingdom

Messrs. EVANS, SONS & CO., LIVERPOOL.

DAY, SON & HEWITT,

Largest Makers in the World of

HORSE AND CATTLE MEDICINES.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2/6, 3/6, and 7/- per Bottle.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13/- per doz. Box; (Ewes), 3/6 per doz. 3-doz. Box, 10/-

Complete in 3 sizes. Sent Carriage Paid.

Prices—

£6 6s., £2 16s. 6d., and £1 8s. 9d.

Liberal Discounts to Agents and Foreign Buyers.

Trade Terms and full particulars on application.

Attractive Showcards and Handbills sent with each order.

A sure remedy for the Fret, Colic, or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1/9 per Bottle. 20/- per doz.

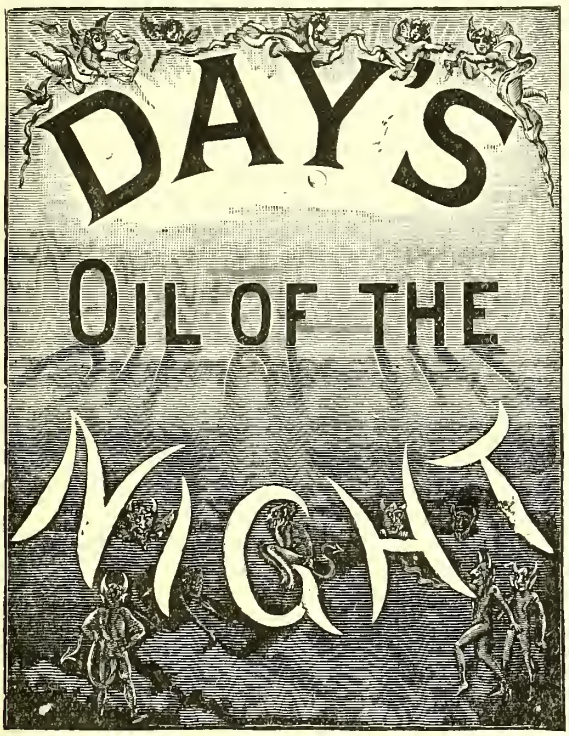
For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off Appetite, Staring Coat, and Sluggishness. Invaluable for Sterility or Barrenness in Horses and Mares, by virtue of its Phosphoric and other stimulating ingredients. Contains no injurious drug, and can be given at all times to all breeds of horses without stopping their work.

Price 5/6 per doz. Packets. 3-doz. 15/-

Sold also at reduced rates in Tins 10/6 and £1 each.

Royal Animal Medicine Manufactory, 22 DORSET STREET, LONDON, W. [Established 1833.]

DAYS' OIL OF THE NIGHT



THE

GREAT EMBROCATIVE BALM FOR THE PEOPLE.

For Rheumatism, Lumbago, Sciatica, Sprains, Cramp, Chest Colds, Gout Symptoms, Chilblains, Sore Throat, Faceache, Toothache, Leg-ache, Back-ache, Headache, or any other ache.

It is an embrocative balm, or, as Dr. Gordon Stables puts it, "*a positive pain-killer,*" unlike and much superior to any other preparation for similar uses.

1/1½, 2/9, *and* 6/6 *per Bottle, less discount.*

Put up also in Veterinary form—

For Sprains, Swellings, Capped Hocks, Rheumatism, Sore Throat, Sprung Sinews, Swollen Tendons, Swollen Udders, Sore Teats, &c., in Horses, Cattle, Sheep, and Dogs.

Price 2/6 *and* 6/- *per Bottle, less discount.*

From Wholesale Houses, or direct.

DAY & SONS, CREWE.

Only ONE Address.

Established 1840.

Day & Sons, Crewe.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only ONE Address.

DAYS' BLACK DRINK (often called "The Magic Drink").

Cures like a Charm Colic or Gripes, and Sudden Chills in Horses and Cattle, Hoven or Blown Cattle and Sheep, Scour and Weakness in Calves and Lambs, &c.

Price 1/3 *per Bottle.*

DAYS' PURIFIED DRIFFIELD OILS (Days' Oils).

Heals Kicks, Cuts, Steak Wounds, Broken Knees, Sore Teats, Swollen Udders, and all Wounds in all Animals. A soothing and Antiseptio Oil for Lambing and Calving. *Price* 2/6 *and* 6/- *per Bottle.*

DAYS' RED DRINK, or Cow Drench.

For Costiveness, Loss of Cud, Carget, Colds, Fever, Hide-bound, &c. Prevents Milk Fever, and Cures Bad Cleansing.

*Prices—*1/- *per Packet; for Ewes,* 3/6 *per dozen.*

DAYS' HUSKOLEIN.

Almost infallible for Tapeworms in Lambs, and for Husk, Hoose, Hoast, or Worm in the Windpipe, and Lungworm in Calves, Lambs, Heifers, and Sheep. *In Large Bottles, price* 6/6.

THE "ORIGINAL" UNIVERSAL MEDICINE CHEST.

For DISORDERS of HORSES, CATTLE, and SHEEP.

Price, with Guide, "*Everyday Farriery,*" £1 4*s.*, £2 4*s.*, and £5.

THE "ORIGINAL" HORSEKEEPERS' MEDICINE CHEST.

Arranged specially for DISORDERS in HORSES.

Price, with Guide, "*Everyday Farriery,*" £1 4*s.*, £2 14*s.*, *and* £5.

HEBDEN'S SILVER GLOSS

For LINEN.

A NOVELTY AND MARVEL!

Gives Dazzling Smoothness to Linen, Shines like Silver.

In 1d., 3d., and 6d. Blocks, of the following Wholesale Houses:—

London.—Maw, Son & Thompson; Bourne, Johnson & Latimer; May, Roberts; Newbery; Barclay; Edwards; Sangers; Suttons; Butler & Crispe; Lynch; Collett & Dodds; Potter & Clarke. **Plymouth.**—Jackson & Co. **Coventry.**—Wyleys (Limited). **Ipswich.**—Wiggin & Son. **Birmingham.**—Ed. Woolf. **Hull.**—Lofthouse & Saltmer. **Thirsk.**—Foggitt. **Manchester.**—Woolley & Sons; Oldfield, Pattinson; Heath Bros. **Leeds.**—Goodall, Backhouse. **Liverpool.**—Thompsons (Limited); Evans; Ayrton & Saunders. **York.**—Raimes; Bleasdale. **Newcastle.**—Ismay. **Glasgow.**—Munro; McLaren. **Dublin.**—M. Woolf & Son. **Belfast.**—T. McMullan & Co. **Cork.**—Bible Bros. **Limerick.**—Boyd (Limited).

MANUFACTURED ONLY BY

W. C. HEBDEN. Albany Works, HALIFAX. **YORKSHIRE.**

CAMPHORTAR

8/- per Gross

CAMPHORTAR

A powerful Disinfectant, Deodoriser, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES

Samples on application.

Manufactured only by

W. C. HEBDEN. Albany Works, HALIFAX. **YORKSHIRE.**

THE

"ACME" WEED KILLERS

Have now a large sale through CHEMISTS, and early application should be made for Illustrated Counter Bills and Show Cards.

POWDER WEED KILLER.

Packed in small decorated tins.

Immediately soluble in cold water.

All tins Free.

No return empties.

Specially adapted for Export.

LIQUID WEED KILLER.

Strength: 1 gall. sufficient for 25 galls. of water.

DOUBLE STRENGTH.

1 gall. sufficient for 50 galls. of water.

Liberal terms to the Trade. *Particulars on Application.*

GENUINE KENTISH COMPRESSED HOPS.

In 1-lb. and ½-lb. packets, with directions for making Hop Ale, Hop Bitters, &c.

Also best Kentish Hops in bulk.

QUASSIA CHIPS, QUASSIA CUPS, &c.

SOLE PROPRIETORS AND MANUFACTURERS—

THE ACME CHEMICAL COMPANY, LIM.

TONBRIDGE, KENT,

And CARLTON ST., BOLTON, LANCASHIRE.

THE UNRIVALLED EXTERMINATOR.

✶ VERMITE ✶

INSECT KILLS POWDER

COCKROACHES, BEETLES, BUGS, FLEAS, MOTHS, GREENFLY, ANTS, VERMIN IN DOGS AND FOWLS, ETC., ETC.

Harmless to everything except Insects.

Used by the Admiralty, War Office, &c. **ALL** Used on all Steamship Lines, &c.

As Chemists will be asked for VERMITE they should stock it immediately.

INSECTS.

Sold in 1/- Bellows (full), and 3d., 6d., 1/-, and 2/6 Tins.

STOCKED BY WHOLESALE HOUSES.

MANUFACTURERS:

JOHN CALABRESE & CO., Ltd.,

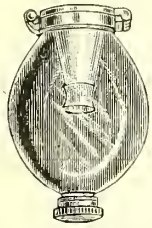
26 Billiter Buildings, Billiter Street, London, E.C.

POCKET SPITTING FLASKS

FOR THE USE OF

Patients Suffering from Lung Affections.

BLUE GLASS, NICKELLED MOUNTS, 2 SIZES.



$4\frac{1}{2}$ in. by 3 in. Each in a Box. 32/- per doz.

$4\frac{1}{8}$ in. by 2 in. Each in a Box. 32/- per doz.

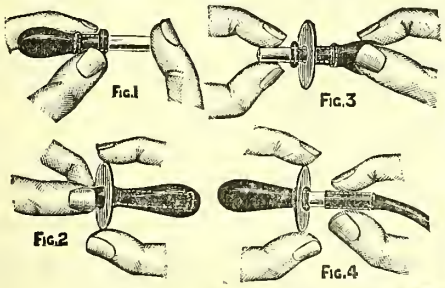
In order to avoid the habit of spitting upon the ground, or the unpleasant necessity of using a pocket-handkerchief, the above has been devised. It occupies very little room, is easily cleaned, and during use can be concealed in the handkerchief. In addition to the advantage to the Patient, it is also of great benefit to the Public, since by its use the liability of infection is greatly diminished.

S. MAW, SON & THOMPSON,

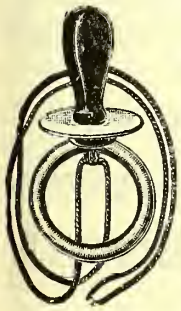
7 TO 12 ALDERSGATE STREET, LONDON.

PATENT HOLDFAST SOOTHERS AND FEEDING BOTTLE UNIONS.

Well moisten Union and push into Teat, as shown in Fig. 1. Pull Teat through hole in Shield, Fig. 2.



Pull Teat up to shoulder, Fig. 3. To detach pull off tubing, as Fig. 4, and push back Union into Teat.



ADVANTAGES.

Absolute fixture of Teat and Shield, therefore impossible to get out of place by accident.

Complete Bone and Rubber Rings. Attractive get up, with Whistles, Bells, &c.

A SET OF SAMPLES, containing 1*d*., 2*d*., 3*d*., 4*d*., 6*d*., and 1*s*. lines, Post free for 2*s*. Send Postal Order.

Patentee and Manufacturer—

A. S. CARTWRIGHT,

75 Ford Street, Hockley, Birmingham.

Wholesale and Shippers only.

A NEW MILL,

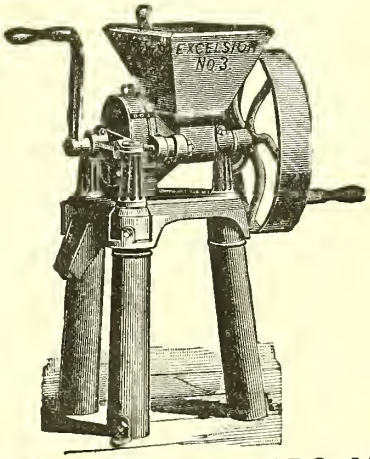
THE "EXCELSIOR."

MADE IN THREE SIZES, FOR HAND OR POWER.

Suitable for Grinding

Wet or Dry Corn, Coffee, Cocoa, Spices, Drugs, Roots, Seeds, Herbs, Barks, Rock Salt, or similar substances.

Simple. Cheap. Durable and Efficient.



Send for Price List. All Sizes in Stock.

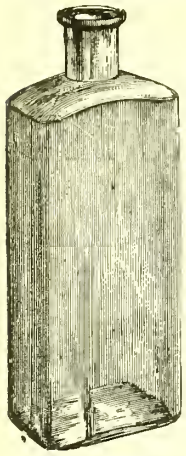
BENNETT, SONS & SHEARS, LIMITED

Engineers and Coppersmiths,

167 Kingsland Road, LONDON, N.E.

ESTABLISHED 100 YEARS.

Telegrams—"COPPERSMITHS LONDON." Telephone 59,095 Dalston.



No. 118,583.
Dispensing. Imitated, but not equalled.

H. GILBERTSON & SONS

Established 1790. (LIMITED).

Dispensing Bottles

A SPECIALITY.

"G" Squares.

Extract from *C. & D.*, Nov. 19th, 1892:—"There has been no hit in the bottle line of recent years which has been so well responded to by the Trade."

MADE IN TWO QUALITIES ONLY—SUPER & ORDINARY.

Samples Sent on Application.

DRAWN FROM STOCK.

SIZE.		SUPER.	ORDINARY.
2 oz.	Per Gross	9/3	6/8
3 oz.	"	10/9	8/-
4 oz.	"	10/9	8/-
6 oz.	"	12/-	9/6
8 oz.	"	12/-	9/6
10 oz.	"	18/-	12/-
12 oz.	"	18/-	13/6
16 oz.	"	21/6	18/9
20 oz.	"	27/-	21/6
24 oz.	"	32/6	27/-
32 oz.	"	43/-	30/-
40 oz.	"	49/-	32/-

IN CRATES DIRECT FROM WORKS.

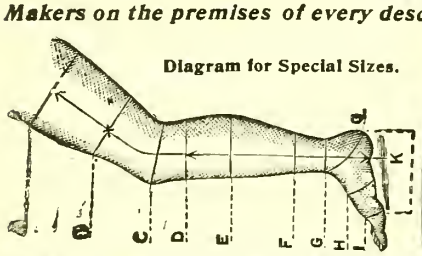
SIZE.		SUPER.	ORDINARY.
2 oz.	Per Gross	9/-	6/6
3 oz.	"	10/3	7/6
4 oz.	"	10/3	7/6
6 oz.	"	11/6	9/-
8 oz.	"	11/6	9/-
10 oz.	"	17/6	11/3
12 oz.	"	17/6	12/6
16 oz.	"	21/-	17/6
20 oz.	"	26/-	20/-
24 oz.	"	32/-	26/-
32 oz.	"	41/-	29/-
40 oz.	"	48/-	31/-

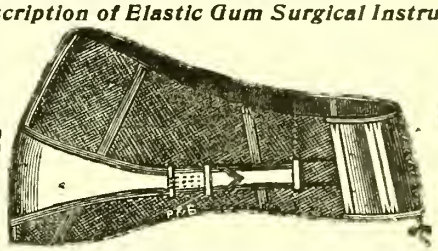
9 & 11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

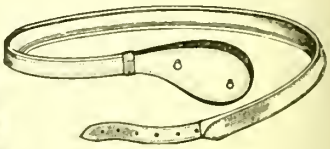
Powell & Barstow, Ltd., 58 Blackfriars Road, S.E.

(Late W. Hurlstone & Co. Established 1830),

Makers on the premises of every description of Elastic Gum Surgical Instruments, Elastic Stockings, &c.







Chest Protectors, Eye Shades, Respirators, Indiarubber Goods, Pessaries, Bath Gloves, Hot Water Bottles, Sponge Bags, Catheters, Bougies, Specula, Artificial Limbs, &c., &c.

Male and Female Attendants for Special Orders. Measurement forms free. Detailed Price Lists on application.

SURGICAL DRESSINGS.

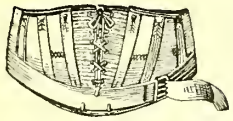
ABSORBENT COTTON LINTS, FLAX LINTS, ROLL BANDAGES, COTTON WOOLS.

"GAMGEE TISSUE"
(Patent Absorbent Gauze and Cotton Wool)
AND
All kinds of ANTISEPTIC DRESSINGS.

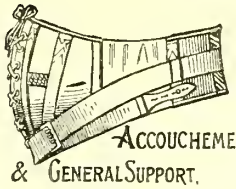
MANUFACTURED BY

ROBINSON & SONS, LIMITED, COTTON SPINNERS, WEAVERS, And BLEACHERS, **Wheat Bridge Mills, CHESTERFIELD.**

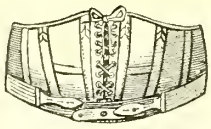
And 55 Fann Street, Aldersgate Street, LONDON, E.C.



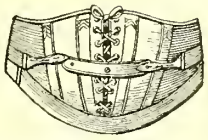
PREGNANCY.



ACCOUCHEMENT & GENERAL SUPPORT.

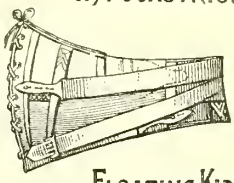


HYPOGASTRIC.



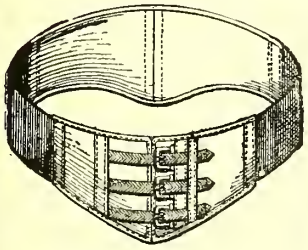
UMBILICAL HERNIA

PADS TO SUIT ALL CASES



FLOATING KIDNEY

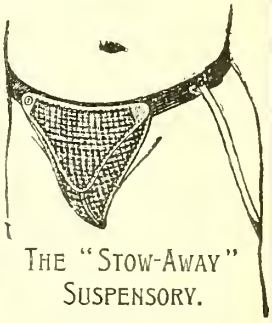
Our New Illustrated Trade List Now Ready.



MEN'S BODY BELT.

DOMEN BELTS CO.,

456 STRAND, CHARING CROSS, W.C.

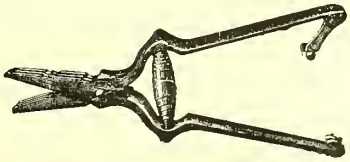


THE "STOW-AWAY" SUSPENSORY.

CARRIER'S ARTIFICIAL MASTICATOR

Highly recommended by the Medical Profession.

A BOON TO ELDERLY PEOPLE.



INVALUABLE IN THE CHILDREN'S NURSERY.

Price 12/6, Nickel Plated.

Sole Agents: **S. MAW, SON & THOMPSON,** 7-12 Aldersgate St., **LONDON, E.C.**

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH.

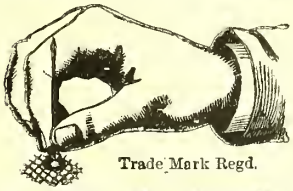
(ESTABLISHED 1877).

12 PALL MALL EAST, LONDON, S.W.

Telegraphic Address—
"DARQUE LONDON."

Office Hours—
10 till 4. Saturdays, 10 till 2.

GLYCERINATED CALF.



Trade Mark Regd.

PURE AND RELIABLE.

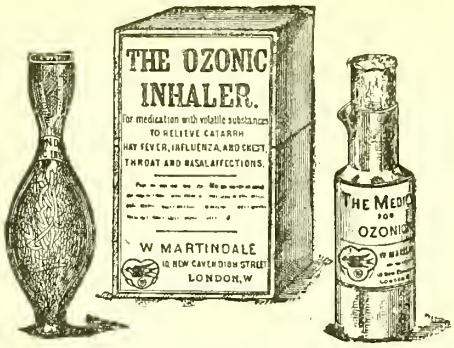
THE NEW CHARGED PIN-POINT, PROVISIONALLY PROTECTED.

C. P. P.

This Instrument, antiseptically charged with Glycerinated Calf Vaccine (G. c. L.), supersedes the S.V. (Single Vaccination) Tubes, and by its aid alone more certain and better results have been obtained than by any other mode of Vaccination. On three occasions, at New Scotland Yard, in the revaccination of recruits, by the Surgeon of the A Division of Police, a total of 51 perfect vesicles were obtained from as many insertions.

Price 6d. each singly. Postage extra.

P.O.O. (including postage, and crossed London and Westminster Bank) with orders payable to EDWARD DARKE, Secretary.



Martindale's Ozonic Inhaler

Will in future only be supplied stamped, and retail at 1/9, unless ordered without medicament (for dispensing), when it will, as before, retail at 1/-. Chemists and others holding stock will kindly affix a 3*d.* stamp, if without it, to those containing medicament.

THE NASAL OZONIC INHALER

Will require a 6*d.* stamp, and will retail at 4/6.

W. MARTINDALE,

Pharmaceutical Chemist,

10 NEW CAVENDISH STREET, LONDON, W.

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY
(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. ..	*7/6* per gross.	10 & 12 oz. ..	*12/-* per gross.
6 ,, 8 ,, ..	*8/6* ,,	16 ,, ..	*16/-* ,,

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz... ..	*3/6* per gross.	1½ oz.	*4/6* per gross.
1 ,, ...	*3/9* ,,	2 ,, ...	*5/-* ,,

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.
Established 50 years. *Bankers—London and Westminster Bank.*

THE ONLY WAY

To make a Success in Business is to procure for your customers the correct articles. If they are Surgical Appliances, there is

ONLY ONE HOUSE,

VINCENT WOOD,

to procure these from.

The Latest Improvements in

ELASTIC HOSIERY,

made in One Piece, and Guaranteed Not to Wrinkle, which is the result of a badly-shaped article.

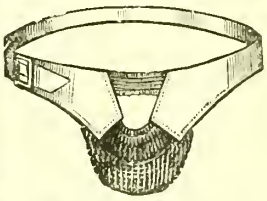
ALL MY ELASTIC HOSIERY THE BEST SHAPE POSSIBLE TO GET.

KNEE-CAPS for ATHLETES.
PROPERLY MADE.

TRUSSES
which cannot EVEN BE COPIED, the MATERIALS being made exclusively for me.

SUSPENSORY BANDAGES,
With WOVEN Purses, &c., from 5/9 dozen.
Other Styles, ditto, from 1/9 dozen.

ELASTIC WEB BANDAGES,
6 yards long each, washable, with tapes, 2/6 each.



ELASTIC BELTS, HOSIERY, &c.
Best Quality. Lowest Prices.

MAGNETIC AND CALVANO-ELECTRIC APPLIANCES,
which can be applied to the body WITHOUT CUMBERSOME BATTERIES.

Send for Latest Price List.

☞ PLEASE NOTE!—I am absolutely a MANUFACTURER, and NOT a Dealer, and to ensure you getting my Goods from your Wholesale house, quote my articles, and you WILL NEVER PURCHASE ANY OTHERS.

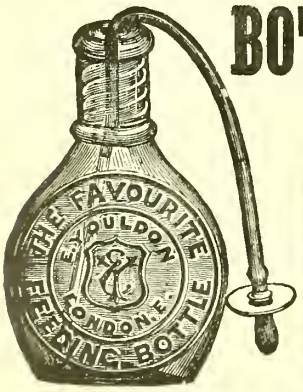
VINCENT WOOD.

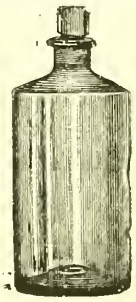
Head Office—**VICTORIA HOUSE, 4 ALBION PLACE, BLACKFRIARS BRIDGE, LONDON, S.E.**

Telephone No. Hop 542. Telegrams—"Acme London."

Steam Mills & Factories—NOTTINGHAM, LONDON, & CARLTON.

BOTTLES FOR ALL REQUIREMENTS





Trial Orders and enquiries solicited by

E. YOULDON,

ESTABLISHED 1840.

East London Glass Bottle Warehouse,

36, 38 & 40 GREAT GARDEN ST., WHITECHAPEL, LONDON, E.

Telegraphic Address—"YOULDON LONDON."

JOHNSON & JOHNSON'S

BELLADONNA PLASTER

STAND G

AT THE

Agricultural Hall, June 19, 1899.

We have adopted a reliable and easy process for analysing Belladonna Plasters.

Every Chemist can be his own Analyst.

We are determined to prove that many manufacturers who claim high alkaloidal strength for their Belladonna Plasters obtain this result by the use of Hyoscyamus and Scopolia—especially the latter drug.

Our process of analysis discovers the drug from which the alkaloid is compounded.

BELLADONNA PLASTERS containing the alkaloids of Hyoscyamus or Scopolia, and ***not*** the alkaloids of ***BELLADONNA,*** do not conform to the B.P., 1898. This is a serious matter for the retail Chemist, and we desire to show every Chemist how he can protect himself.

☞ Call and see us—STAND G,

CHEMISTS' EXHIBITION.

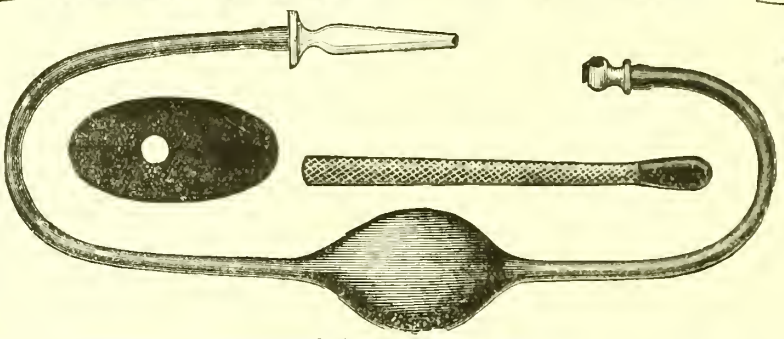
JOHNSON & JOHNSON, NEW BRUNSWICK, U.S.A.

London Office—104 GOLDEN LANE, E.C.

THE 'EMPIRE' ENEMA.

REDUCTION IN PRICE.

16/- NET. PER DOZ. UNPOLISHED.



17/- NET. PER DOZ. POLISHED.

☞ Owing to special arrangements we are now able to take off the advance of 10% which we have been charging on this Enema.

This is a FULL-SIZED Enema, made of Vulcanized Rubber, and has two important qualities never before combined, except in high-priced Enemas, viz.:

IT WILL NOT GET STICKY in hot weather, and IT WILL NOT GET HARD in cold weather.

WE GUARANTEE THEM FOR TWO YEARS.

We also supply Druggists' Sundries in great variety, Stockings, Hot-water Bottles, Combs, Sponge Bags, Syringes, Catheters, Trusses, Elastic and Waterproof Goods of all kinds.

Owing to the continued advance in the price of Raw Rubber we are compelled to add the advance of 10% to our prices for all Rubber Goods, except the 'Empire' Enema. This advance will be taken off directly the state of the Rubber Market will permit.

OUR GOODS ARE RIGHT AND PRICES LOW.

WRITE FOR ILLUSTRATED CATALOGUE—POST FREE.

BURGE, WARREN & RIDGLEY, 91 & 92 Great Saffron Hill, LONDON, E.C.

REGISTERED TRADE MARK

VIMULE

REGISTERED TRADE MARK

SOLUBLE TABLETS

PREVIOUSLY ADVERTISED AS

LAMBERT'S SOLUBLE QUININE TABLETS.

PERFECTLY PREPARED.

ABSOLUTELY RELIABLE.

SALE UPWARDS OF 8,000,000.

These Tablets are manufactured by us of the best materials procurable. We guarantee every one to be of accurate proportions, and can with confidence recommend them to the trade as one of the best ever introduced.

They are packed in specially neat metal boxes of 1 doz., and sealed with our Registered Label, without which they are not genuine.

Our method of packing particularly adapts them for exportation. Being practically air-tight they will keep in perfect condition for a long period, and liability to injury by variation of climate is reduced to a minimum.

Advertised to retail at 2/- per box of 1 dozen. 5/- for three boxes. 9/6 for six boxes. 17/- for 12 boxes.

Trade Price.

12/6 net per dozen boxes of 1 dozen each.

Single boxes 1/3, including postage.

Orders of ½ doz. boxes and upwards sent post free.

Can be obtained through any wholesale house.

PERFECTLY PREPARED.

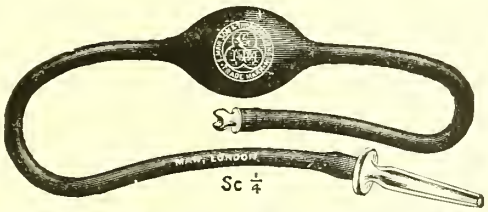
TRADE PRICES MODERATE.

SALE UPWARDS OF 8,000,000.

A. LAMBERT & CO., 16 DALSTON LANE, LONDON, N.E.

MAW'S

SEAMLESS



S. MAW, SON & THOMPSON,
7-12 Aldersgate Street, LONDON.

ANTISEPTIC DRESSINGS, &c.

		Percentage	In Paper Parcels		In Boxes		In Sealed Tins	
			s.	d.	s.	d.	s.	d.
GAUZES (36 in. wide)—Boric ...	per dozen yards	25	1	9	2	0	2	3
Carbolized, unbleached	,, ,,	5	1	8	1	11	2	2
Iodoform	,, ,,	10	4	0	4	3	4	6
Iodoform	,, ,,	5	4	0	4	3	4	6
Lister's Cyanide of Mercury and Zinc	,, ,,	3	3	2	3	5	3	8
Sal Alembroth	,, ,,	1	1	9	2	0	2	3
Salicylic	,, ,,	4	2	4	2	7	2	10
Sublimate, Unbleached	,, ,,	¼	1	6	1	9	2	0
LINTS—Boric...	per lb.	45	1	6	1	9	2	0
Carbolized	,,	5	2	0	2	3	2	6
Cyanide of Mercury and Zinc	,,	3	3	4	3	7	3	10
Iodoform	,,	10	5	0	5	3	5	6
Sal Alembroth	,,	2	2	1	2	4	2	7
Salicylic	,,	4	2	4	2	7	2	10
Sublimate	,,	¼	2	0	2	3	2	6
WOOLS—Boric	,,	45	1	4	1	7	1	10
Carbolized	,,	5	1	6	1	9	2	0
Cyanide of Mercury and Zinc	,,	3	2	8	2	11	3	2
Iodoform	,,	10	4	6	4	9	5	0
Sal Alembroth	,,	2	1	6	1	9	2	0
Salicylic	,,	4	1	9	2	0	2	3
Sublimate	,,	¼	1	4	1	7	1	10

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, **LONDON.**

R. J. Fullwood & Bland's

Estab. 114 Years. Estab. 114 Years.

OLEO BUTTER COLORINE

TRADE MARK.

A much-improved vegetable Butter Colour, manufactured from pure Annatto only.

Beware of imitations, and see that the capsule bears the above Trade Mark.

Sold in Jars — 1 gallon, ½ gallon, quart, pint, ½ pint, and ⅛ pint. Also in Glass Bottles, 1/- and 6d. each, and in bulk.

ESSENCE of RENNET

FOR MAKING JUNKETS, CHEESE CAKES, CURDS AND WHEY, &c.

Sold in Glass Bottles, 1/- and 6d. each, and in bulk.

JUNKET TABLETS.

Sold in Boxes, containing 2 dozen tubes. Each tube contains 20 tablets, sufficient to make 20 quarts of Junket. 7/6 per Box net.

Samples and further particulars supplied on application to our sole address—

STEAM ANNATTO WORKS, 31 BEVENDEN STREET, HOXTON, LONDON.

Pharmaceutical Sugar.

This Sugar, guaranteed to be Pure Cane Sucrose, dry, and absolutely free from blue (Saccharum Purificatum B.P.), was introduced in 1880 at the suggestion of Dr. Charles Symes, and has since given every satisfaction to an increasing number of pharmacists. It is supplied in any quantity, small or large, and costs but little more than ordinary household sugar.

Macfies

Sugar.

MACFIE & SONS, LIVERPOOL.

SOLE WHOLESALE AGENTS FOR CHEMISTS AND DRUGGISTS,

Evans, Sons & Co., Liverpool. Evans, Lescher & Webb, London. Evans & Sons (Limited), Montreal.

DR TIBBLES' Vi-Cocoa

"Undoubted Purity and Strength."—*Medical Magazine.*

"In the front rank of really Valuable Foods."—*Lancet.*

PERFECTLY PURE BUT NOT INSIPID

FAVOURED BY THE HOMES AND HOSPITALS OF GREAT BRITAIN.

van Houten's Cocoa

Report by A. H. ALLEN, Esq., F.I.C., F.C.S.:—"Perfectly Pure." "Highly Concentrated." "Greatly increased solubility and digestibility."

Proved Products of 170 years' reputation.

FRY'S

COCOAS & CHOCOLATES.

Price Lists, &c., on application.

TELEGRAPHIC ADDRESSES—
"FRY, BRISTOL." "FRYSON, LONDON."

250 GOLD MEDALS AND DIPLOMAS.

TOOTH POWDERS.

Special to Shippers and Large Buyers.

Carbolic (Carmine and Mauve Pink Shades)
White Rose, Pure White Rose Perfume,
Camphorated Chalk. Finest ingredients.

All the above are guaranteed harmless to the teeth and gums. Put up in tins of 7 lbs., 14 lbs., 28 lbs., 56 lbs., and 112 lbs. net; also in decorated tin boxes to retail at 1*s.*, 6*d.*, and 2*d.* For samples, prices, and terms, please write to

F. GILLESPIE & CO.

MANUFACTURERS AND MERCHANTS,

BILLITER BUILDINGS, BILLITER ST., E.C.

FRED^K. FINK & CO.
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

BREWSTER, SMITH & CO.
MANUFACTURERS AND IMPORTERS OF
Scientific Apparatus and Pure Chemicals,
6 CROSS STREET, FINSBURY PAVEMENT, E.C.
ILLUSTRATED PRICE LIST OF CHEMICAL APPARATUS NOW READY,
wherein New Apparatus will be found described. Sent post free to Chemists on application. *See page 234, July 30, 1898.*

SPENCER & SON,
MECHANICAL DENTISTS TO THE PROFESSION,
38 South Street, GREENWICH.
FIRST-CLASS Work of every description on very moderate terms. Send for Price Lists.
Great Reduction in Vulcanite Work. Punctuality Guaranteed.
ESTABLISHED 20 YEARS.

CACHETS "FINOT"
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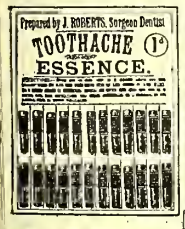

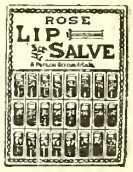

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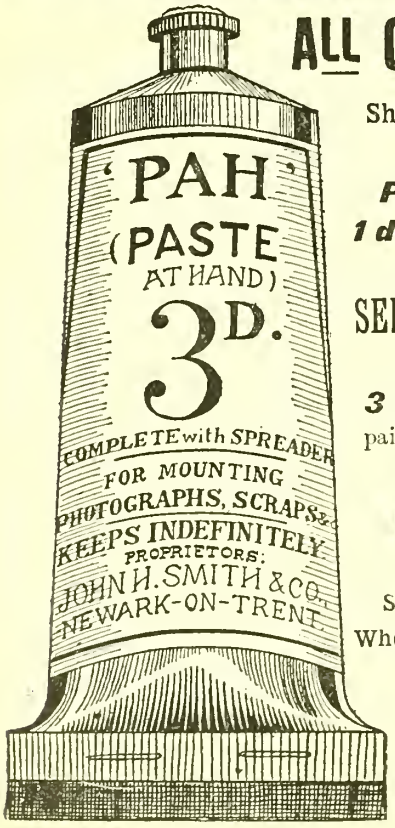

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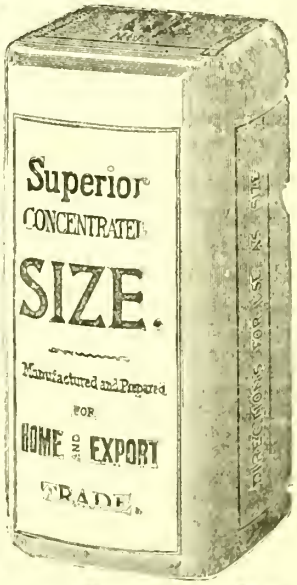

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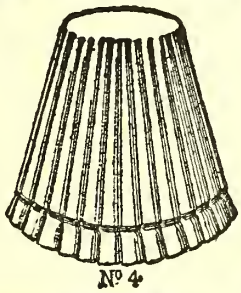

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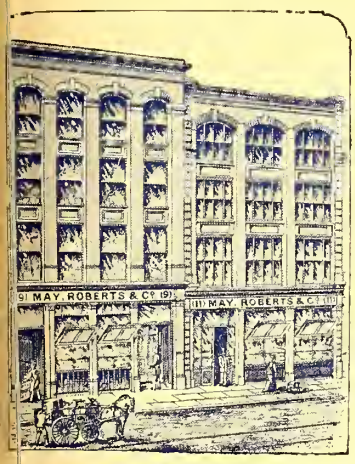

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